FILE COPY

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Type I Data Package

Prepared for:

Olin Corporation
Suite 200
3855 North Ocoee Street
Cleveland TN 37312

CHECKED FOR COMPLETENESS OF PARAMETERS ORDERED BY:
6/17/11

Project: Olin Wilmington, MA Superfund Site/6107090016
Water Samples
Collected on 12/13/10

SDG# OLN56

GROUP	SAMPLE NUMBERS
1225565	6165071-6165074

PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-08A-TX

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client.

Authorized by: Luz C Torres

Luz C Torres
Group Leader

Date 6/18/11

Any questions or concerns you might have regarding this data package should be directed to your client representative, Nicole Maljovec at Ext. 1537.

Total Number of Pages 208

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Sample Reference List for SDG Number OLN56 with a Data Package Type of I

12670 - Olin Corporation

Project: Olin Wilmington, MA Superfund Site/6107090016

Lab Sample Number	Lab Sample Code	Client Sample Description
6165071	SW0--	OC-SW-EDSD/SW0-XXX Grab Water
6165072	SW1--	OC-SW-EDSD/SW1(EDBS5)-XXX Grab Water
6165073	SW2--	OC-SW-EDSD/SW2(EDBS6)-XXX Grab Water
6165074	SW5--	OC-SW-EDSD/SW5(EDBS11)-XXX Grab Water

Lancaster Lab

Page 1 of 1

Client: Olin Corporation	Client Project #: 6107090016	INVOICE INFO	Shaded Areas for office use only
Address: 3855 North Ocoee St. Suite 200, Cleveland, TN 37312	Work Site ID: Wilmington, MA	Company Name: Olin Corp	12670/1225565/6165071-74
	Reports Sent To: Steve Morrow	Company Contact: ERG Accounts Payable	
Phone: 423-336-4511 Fax: 423-336-1466	Email SGMorrow@olin.com Email Rpt: ___	Address: Same as Client	
Requested Turnaround Time (SPECIFY)	Regulatory Programs: MADEP MCP ___ Superfund ___	Phone:	Email
Standard ___ Rush ___ (Lab Approval Required)	Report Requirements Level IV Package ___ Level II Package ___	Job # ___	Quote # ___
	EDD Requirements: MACTEC EQUIS EZ EDD ___	Lab SDG # ___	PO # ___

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	NDMA/NDPA (Mod 521)	Alkylphenols (WS-MS-0010)*		Cr+6 (3060A / 7199)		DMF (Mod 8033 - GC/NPD)		Phthalic Anhydride (acid) (Mod 8000 - HPLC)*	Formaldehyde/Acetaldehyde (SW-846 8315A)*		Opex / Kempone (8000B - HPLC)	Perchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)		Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Comments (Special Instructions)
<--Preservative Type (4)							-	SA		-		-		-	-		-	-	Zn	-	-	-	-	
<--Bottle Type (5)							AG	AG		G		V		AG	AG	P	V	V	AV			G	AG	
OC-SW-EDSD/SW0-XXX	12/13/2010 12:00:00	T	FS	SW	G	2											X							
OC-SW-EDSD/SW1 (EDBS5)-XXX	12/13/2010 10:45:00	T	FS	SW	G	2											X							
OC-SW-EDSD/SW2 (EDBS6)-XXX	12/13/2010 9:30:00 AM	T	FS	SW	G	2											X							
OC-SW-EDSD/SW5 (EDBS11)-XXX	12/13/2010 8:30:00 AM	T	FS	SW	G	2											X							

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

Fed Ex # 9020 5597 1479

Cr+6 = 24 hour hold time

Formaldehyde = 3 day hold time

Relinquished: [signature] Date: 12/14/10 Time: 1316 Received: ___ Date: / / Time: ___

Relinquished: ___ Date: / / Time: ___ Received: [signature] Date: 12/15/10 Time: 940

Cooler? (Y) N	MADEP Requirement
	Samples Iced? (Y) / N
Temp @ receipt: 1.2 Deg C	
Preservation / pH checked? Y / N	
By: ___	Date: ___

Lancaster Laboratories

Environmental Sample Administration
Receipt Documentation Log

Client/Project: Olin Corp

Date of Receipt: 12/15/10

Time of Receipt: 940

Source Code: 50-1

Unpacker Emp. No.: 2316

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	9993	1.2°C	TB	WI	Y	B	
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody 0

Paperwork Discrepancy/Unpacking Problems:

Sample Administration Internal Chain of Custody			
Name	Date	Time	Reason for Transfer
[signature]	12/15/10	1435	Unpacking to Storage
[signature]	12/15/10	1454	Place in Storage or Entry
			Entry
			Entry

Issued by Dept. 6042 Management
2174.05

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02726 Opex in Water

Water samples are pH adjusted to 9 with hydroxide solution. Filtration is performed followed by HPLC analysis. Separation is accomplished using a C18 column and ACN/phosphate buffer mobile phase. A UV detector at 230 nm is used for quantitation.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8000B, December 1996.

02727 Kempore in Water

Water samples are analyzed using a solid phase cleanup procedure followed by filtration and HPLC analysis. Separation is accomplished using a C18 column and phosphate buffer mobile phase. A UV detector at 230 nm is used for quantitation.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8000B, December 1996.

Lancaster Laboratories

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Olin Corporation
Suite 200
3855 North Ocoee Street
Cleveland TN 37312

December 29, 2010

Project: Olin Wilmington, MA Superfund Site/6107090016

Submittal Date: 12/15/2010
Group Number: 1225565
SDG: OLN56
PO Number: REWI0012
Release Number: ERRE9813
State of Sample Origin: MA

Client Sample Description	Lancaster Labs (LLI) #
OC-SW-EDSD/SW0-XXX Grab Water	6165071
OC-SW-EDSD/SW1(EDBS5)-XXX Grab Water	6165072
OC-SW-EDSD/SW2(EDBS6)-XXX Grab Water	6165073
OC-SW-EDSD/SW5(EDBS11)-XXX Grab Water	6165074

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Olin Chemicals	Attn: Steve Morrow
ELECTRONIC COPY TO	MACTEC	Attn: Kelly Chatterton
ELECTRONIC COPY TO	MACTEC	Attn: Chris Ricardi
1 COPY TO	Data Package Group	

OLN56 0005

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Lancaster Laboratories

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michelle D Hamilton

Michelle D. Hamilton
Group Leader

01N56 8886

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Lancaster Laboratories

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value -- The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

Lancaster Laboratories

Sample Description: OC-SW-EDSD/SW0-XXX Grab Water
Wilmington MA Superfund Site

LLI Sample # WW 6165071
LLI Group # 1225565
Account # 12670

Project Name: Olin Wilmington, MA Superfund Site/6107090016

Collected: 12/13/2010 12:00

Submitted: 12/15/2010 09:40
Reported: 12/29/2010 15:53

Olin Corporation
Suite 200
3855 North Ocoee Street
Cleveland TN 37312

SW0-- SDG#: OLN56-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Dilution Factor
HPLC Organics	**SW-846 8000B**		ug/l	ug/l	ug/l	
02727	Kempore in Water	123-77-3	N.D.	1,000	230	1
02726	Opex in Water	101-25-7	N.D.	100	20	1

The sample was analyzed 8 days after sample collection due to an instrument failure. This is outside the laboratory holding time of 7 days, however, there is no formally established regulatory holding time.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02727	Kempore in Water	SW-846 8000B	1	103490027A	12/16/2010 17:57	James H Place	1
02726	Opex in Water	SW-846 8000B	1	103480033A	12/21/2010 18:20	James H Place	1

OLN56 8888

*=This limit was used in the evaluation of the final result

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Lancaster Laboratories

Sample Description: OC-SW-EDSD/SW1(EDBS5)-XXX Grab Water
Wilmington MA Superfund Site

LLI Sample # WW 6165072
LLI Group # 1225565
Account # 12670

Project Name: Olin Wilmington, MA Superfund Site/6107090016

Collected: 12/13/2010 10:45

Submitted: 12/15/2010 09:40
Reported: 12/29/2010 15:53

Olin Corporation
Suite 200
3855 North Ocoee Street
Cleveland TN 37312

SW1-- SDG#: OLN56-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Dilution Factor
HPLC Organics	**SW-846 8000B**		ug/l	ug/l	ug/l	
02727	Kempore in Water	123-77-3	N.D.	1,000	230	1
02726	Opex in Water	101-25-7	N.D.	100	34	1

Reporting limits were raised due to interference from the sample matrix.
The sample was analyzed 8 days after sample collection due to an instrument failure. This is outside the laboratory holding time of 7 days, however, there is no formally established regulatory holding time.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02727	Kempore in Water	SW-846 8000B	1	103490027A	12/16/2010 18:03	James H Place	1
02726	Opex in Water	SW-846 8000B	1	103480033A	12/21/2010 18:26	James H Place	1

OLN56 9889

*=This limit was used in the evaluation of the final result

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PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Sample Description: OC-SW-EDSD/SW2(EDBS6)-XXX Grab Water
Wilmington MA Superfund Site

LLI Sample # WW 6165073
LLI Group # 1225565
Account # 12670

Project Name: Olin Wilmington, MA Superfund Site/6107090016

Collected: 12/13/2010 09:30

Submitted: 12/15/2010 09:40
Reported: 12/29/2010 15:53

Olin Corporation
Suite 200
3855 North Ocoee Street
Cleveland TN 37312

SW2-- SDG#: OLN56-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Dilution Factor
HPLC Organics	SW-846 8000B		ug/l	ug/l	ug/l	
02727	Kempore in Water	123-77-3	N.D.	1,000	230	1
02726	Opex in Water	101-25-7	N.D.	100	20	1

The sample was analyzed 8 days after sample collection due to an instrument failure. This is outside the laboratory holding time of 7 days, however, there is no formally established regulatory holding time.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02727	Kempore in Water	SW-846 8000B	1	103490027A	12/16/2010 18:09	James H Place	1
02726	Opex in Water	SW-846 8000B	1	103480033A	12/21/2010 18:32	James H Place	1

OLN56 9818

*=This limit was used in the evaluation of the final result

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Lancaster Laboratories

Sample Description: OC-SW-EDSD/SW5(EDBS11)-XXX Grab Water
Wilmington MA Superfund Site

LLI Sample # WW 6165074
LLI Group # 1225565
Account # 12670

Project Name: Olin Wilmington, MA Superfund Site/6107090016

Collected: 12/13/2010 08:30

Submitted: 12/15/2010 09:40
Reported: 12/29/2010 15:53

Olin Corporation
Suite 200
3855 North Ocoee Street
Cleveland TN 37312

SW5-- SDG#: OLN56-04*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Dilution Factor
HPLC Organics	**SW-846 8000B**		ug/l	ug/l	ug/l	
02727	Kempore in Water	123-77-3	N.D.	1,000	230	1
02726	Opex in Water	101-25-7	N.D.	100	61	1

Reporting limits were raised due to interference from the sample matrix.
The sample was analyzed 8 days after sample collection due to an instrument failure. This is outside the laboratory holding time of 7 days, however, there is no formally established regulatory holding time.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02727	Kempore in Water	SW-846 8000B	1	103490027A	12/16/2010 18:15	James H Place	1
02726	Opex in Water	SW-846 8000B	1	103480033A	12/21/2010 18:38	James H Place	1

OLN56 0011

*=This limit was used in the evaluation of the final result

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Kempore Data

Case Narrative
Conformance/Nonconformance
Summary

Lancaster Laboratories

CLIENT: Olin Corporation
SDG: OLN56

LANCASTER LABORATORIES

Kempore

		MATRIX		
LLI SAMPLE #	**SAMPLE CODE**	**WATER**	**SOLID**	**COMMENT**
BLANKA 12/15/10	PBLK27349	X		Method Blank
LCSA	LCS27349	X		Lab Control Spike
LCSDA	LCSD27349	X		Lab Control Spike Dup
6165071	SW0--	X		
6165072	SW1--	X		
6165073	SW2--	X		
6165074	SW5--	X		
LAB SUBMITTED QC:				
6162684	ISCSW	X		Unspiked
6162685MS	ISCSWMS	X		Matrix Spike
6162686MSD	ISCSWMSD	X		Matrix Spike Dup

A. Sample Preparation:

No problems were encountered with the preparation of the samples.

B. Analysis:

No problems were encountered.

All continuing calibration data meet the method specification.

C. Quality Control:

Please note that US EPA Methods for organic compounds do not require action by the laboratory based on out-of-specification MS/MSD.

For preparation/method blank results >LOQ, corrective action is not required if the sample result is >10 times the blank concentration, unless otherwise specified in the method or by the client.

All QC data are within specifications.

D. Data Interpretation:

No further interpretation is needed.

Data codes:

Data that indicates that manual integration was required would include the following codes:
1 = missed peak and 2 = improper baseline. The peaks that have been manually changed are indicated with an "M" on the raw data.

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Lancaster Laboratories

Narrative reviewed and approved by:

Elizabeth A. Smith, Manager Data Deliverables
Specialist

Date 1/13/11

OLN56 0015

Quality Control and Calibration Summary Forms

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO. PBLK27349

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103490027A

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: BLANKA

Sample wt/vol: 10 (g/ml) ml Lab File ID: 1K11349.10R

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) Direct Injection Date Extracted: 12/15/2010

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/15/2010

Injection Volume: 30 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
123-77-3	Kempore	230	U

OLN56 0017

3E

Water Lab Control Spike/Lab Control Spike Duplicate Recovery

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Laboratory Control Spike - Sample Code No.: LCS27349

Compound	Spike Added (ug/l)	LCS Concen (ug/l)	LCSD Concen (ug/l)	LCS % Rec #	LCSD % Rec #	LCS-LCSD % REC Limits	% RPD #	% RPD Lim
Kempore	9800	11000	10000	112	102	(70 - 130)	10	30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

Comments: Results calculated on as-received basis.

Sample No.: LCSA Batch: 103490027A

OLN56 8818

3E
Water Matrix Spike/Matrix Spike Duplicate Recovery

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix Spike - Sample Code No.: ISCSW

Compound	Spike Added (ug/l)	Sample Concen (ug/l)	MS Concen (ug/l)	MSD Concen (ug/l)	MS % Rec #	MSD % Rec #	MS-MSD % REC Limits	% RPD #	% RPD Lim
Kempore	9800	0	12000	12000	122	122	(70 - 130)	0	30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

Comments: Results calculated on as-received basis.

Sample No.: 6162684 Batch: 103490027A

OLN56 6019

4C

METHOD BLANK SUMMARY

SAMPLE CODE NO. PBLK27349

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.: OLN56

Lab Sample ID BLANKA Batch 103490027A Lab File ID: 1K11349.10R

Matrix: (soil/water) WATER Extraction: (SepF/Cont/Sonc) Direct Injection

Sulfur Cleanup: (Y/N) N Date Extracted: 12/15/2010

Date Analyzed (1): 12/15/2010 Date Analyzed (2):

Time Analyzed (1): 21:35:13 Time Analyzed (2):

Instrument ID (1): K3593A Instrument ID (2):

GC Column: SUP-PAH ID: 4.6 (mm) GC Column: ID: (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD

	SAMPLE CODE NO.	LAB SAMPLEID	DATE ANALYZED 1	DATE ANALYZED 2
01	ISCSWRE	6162684	12/15/2010	
02	ISCSWRE	6162685	12/15/2010	
03	ISCSWRE	6162686	12/15/2010	
04	SW0--	6165071	12/16/2010	
05	SW1--	6165072	12/16/2010	
06	SW2--	6165073	12/16/2010	
07	SW5--	6165074	12/16/2010	
08	PBLK27349	BLANKA	12/15/2010	
09	LCS27349	LCSA	12/15/2010	
10	LCSD27349	LCSDA	12/15/2010	

OLN56 0028

COMMENTS: _____

6D
INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: K3593A Calibration File: 1K11349

GC Column (1) : SUP-PAH ID: 4.6 (mm) Update File:

Date(s) Analyzed: 12/15/2010 12/15/2010

COMPOUND	RT OF STANDARDS LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	~~MIDPOINT~~ RT Level I	RT WINDOW FROM	TO
Kempore	2.49	2.51	2.50	2.50	2.48	2.46	2.49	2.39	2.59

12/16/10

OLNS6 0021

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: K3593A Calibration File: 1K11349

GC Column (1) : SUP-PAH ID: 4.6 (mm) Date(s) Analyzed: 12/15/2010 12/15/2010

COMPOUND	CALIBRATION FACTORS							
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	MEAN	%RSD
Kempore	1.52E+00	1.88E+00	1.73E+00	1.74E+00	1.83E+00	1.75E+00	1.74E+00	7.1

Average % RSD: 7.1

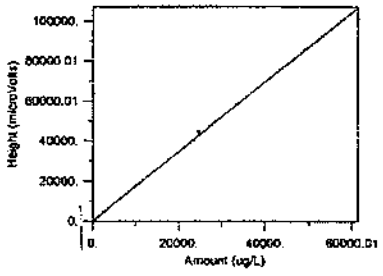
OLN56 8822

FORM VI-2

Calibration File Name: **C:\CPWIN\DATA1\1K11349.CAL** Version = 23
External standard calibration
Standard injection volume = 1
No sample weight correction
Area reject threshold = 0
Reference peak area reject threshold = 500
Amount units = ug/L
1 components with 6 levels each

1 Kempore
Retention time = 2.486 min., Search window = 0.100 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	195.940	297.0	1.515805	1K11349.09A	12/15/2010 9:42:
2	979.700	1837.0	1.875087	1K11349.04A	12/15/2010 9:40:
3	2449.250	4232.3	1.727992	1K11349.05A	12/15/2010 9:40:
4	9797.000	17084.2	1.743818	1K11349.06A	12/15/2010 9:41:
5	24492.500	44821.6	1.830015	1K11349.07A	12/15/2010 9:41:
6	48985.000	85791.1	1.751375	1K11349.08A	12/15/2010 9:41:



Calibration formula: Y = 1.741 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9991, Average error = 4.55%
Average CF = 1.7407 with RSD = 7.12%

OLN56 0823

6D

INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: K3593A Calibration File: 1K11350

GC Column (1) : SUP-PAH ID: 4.6 (mm) Update File:

Date(s) Analyzed: 12/16/2010 12/16/2010

COMPOUND	RT OF STANDARDS						MIDPOINT RT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	Level 1	FROM	TO
Kempore	2.49	2.47	2.50	2.49	2.48	2.51	2.49	2.39	2.59

12/16/10

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: K3593A Calibration File: 1K11350

GC Column (1) : SUP-PAH ID: 4.6 (mm) Date(s) Analyzed: 12/16/2010 12/16/2010

COMPOUND	CALIBRATION FACTORS							%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	MEAN	
Kempore	1.33E+00	1.37E+00	1.54E+00	1.32E+00	1.60E+00	1.51E+00	1.44E+00	8.2

Average % RSD: 8.2

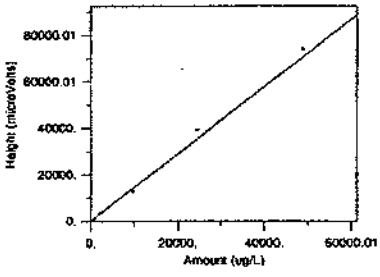
GLN56 0825

FORM VI-2

Calibration File Name: **C:\CPWIN\DATA1\1K11350.CAL** Version = 7
External standard calibration
Standard injection volume = 1
No sample weight correction
Area reject threshold = 0
Reference peak area reject threshold = 500
Amount units = ug/L
1 components with 6 levels each

1 Kempore
Retention time = 2.491 min., Search window = 0.100 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	195.940	260.6	1.329889	1K11350.09A	12/16/2010 5:28:
2	979.700	1343.6	1.371397	1K11350.04A	12/16/2010 4:58:
3	2449.250	3764.2	1.536898	1K11350.05A	12/16/2010 5:04:
4	9797.000	12966.1	1.323481	1K11350.06A	12/16/2010 5:10:
5	24492.500	39132.7	1.597744	1K11350.07A	12/16/2010 5:16:
6	48985.000	73983.8	1.510336	1K11350.08A	12/16/2010 5:22:



Calibration formula: Y = 1.445 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9940, Average error = 7.15%
Average CF = 1.4450 with RSD = 8.16%

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: K3593A Init. Calib Date(s): 12/15/10 12/15/10
GC Column (1) : SUP-PAH ID: 4.6 (mm) Date Analyzed: 12/15/10
Lab File ID: 1K11349.20R Time Analyzed: 22:34
Lab Standard ID: KEMP3EA Initial Calibration: 1K11349

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Kempore	2.42	2.39	2.59	8574.53	9797.00	-12.5
					Average of %D:	12.5

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: K3593A Init. Calib Date(s): 12/16/10 12/16/10

GC Column (1) : SUP-PAH ID: 4.6 (mm) Date Analyzed: 12/16/10

Lab File ID: 1K11350.19R Time Analyzed: 18:45

Lab Standard ID: KEMP3EB Initial Calibration: 1K11350

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Kempore	2.42	2.39	2.59	8963.06	9797.00	-8.5
					Average of %D:	8.5

01N56 6628

8D
ANALYTICAL SEQUENCE

Sequence: 1K11349 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: SUP-PAH ID: 4.6

Instrument: K3593A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
001		CONDITIONER	12/15/2010	20:20:53	1K11349
002		CONDITIONER	12/15/2010	20:26:47	1K11349
003		CONDITIONER	12/15/2010	20:32:39	1K11349
004	KEMP1AA	KEMP11024C	12/15/2010	20:59:56	1K11349
005	KEMP2AA	KEMP21024C	12/15/2010	21:05:49	1K11349
006	KEMP3AA	KEMP31024C	12/15/2010	21:11:42	1K11349
007	KEMP4AA	KEMP41024C	12/15/2010	21:17:35	1K11349
008	KEMP5AA	KEMP51024C	12/15/2010	21:23:28	1K11349
009	MDKRXAA	MDKRX1024C	12/15/2010	21:29:20	1K11349
010	PBLK27349	BLANKA	12/15/2010	21:35:13	1K11349
011	LCS27349	LCSA	12/15/2010	21:41:06	1K11349
012	LCSD27349	LCSDA	12/15/2010	21:46:59	1K11349
013	EBK--	6162682	12/15/2010	21:52:52	1K11349
014	ISCDP	6162683	12/15/2010	21:58:45	1K11349
015	ISCSW	6162684	12/15/2010	22:04:38	1K11349
016	ISCSW	6162685	12/15/2010	22:10:31	1K11349
017	ISCSW	6162686	12/15/2010	22:16:23	1K11349
018	ISCS2	6162688	12/15/2010	22:22:16	1K11349
019	OPWD1	6162689	12/15/2010	22:28:09	1K11349
020	KEMP3EA	KEMP31024C	12/15/2010	22:34:02	1K11349

8D
ANALYTICAL SEQUENCE

Sequence: 1K11350 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: SUP-PAH ID: 4.6

Instrument: K3593A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
001		CONDITIONER	12/16/2010	16:35:21	1K11350
002		CONDITIONER	12/16/2010	16:41:16	1K11350
003		CONDITIONER	12/16/2010	16:47:10	1K11350
004	KEMP1AA	KEMP11024C	12/16/2010	16:53:04	1K11350
005	KEMP2AA	KEMP21024C	12/16/2010	16:58:58	1K11350
006	KEMP3AA	KEMP31024C	12/16/2010	17:04:52	1K11350
007	KEMP4AA	KEMP41024C	12/16/2010	17:10:46	1K11350
008	KEMP5AA	KEMP51024C	12/16/2010	17:16:40	1K11350
009	MDKRXAA	MDKRX1024C	12/16/2010	17:22:34	1K11350
010	OPWD2	6162690	12/16/2010	17:28:28	1K11350
011	OPWDS	6162691	12/16/2010	17:34:22	1K11350
012	PZ16R	6162692	12/16/2010	17:40:17	1K11350
013	PZ17R	6162693	12/16/2010	17:46:11	1K11350
014	SWSD1	6162694	12/16/2010	17:52:05	1K11350
015	SW0--	6165071	12/16/2010	17:57:59	1K11350
016	SW1--	6165072	12/16/2010	18:03:53	1K11350
017	SW2--	6165073	12/16/2010	18:09:47	1K11350
018	SW5--	6165074	12/16/2010	18:15:41	1K11350
019	KEMP3EB	KEMP31024C	12/16/2010	18:45:01	1K11350

Sample Data

Lancaster Laboratories

LOQ and MDL by Analysis Number

COMPONENT NAME	MDL	LOQ	DEFAULT UNITS
02727: Kempore in Water			
Kempore in Water	230	1,000	ug/l

OLN56 9832

1D

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO.

SW0--

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103490027A

Lab Code: Case No.: SAS No.: SDG No.: OLN56

Matrix: (soil/water) WATER Lab Sample ID: 6165071

Sample wt/vol: 10 (g/ml) ml Lab File ID: 1K11350.15R

% Moisture: Decanted: (Y/N) Date Received: 12/15/2010

Extraction: (SepF/Cont/Sonc) Direct Injection Date Extracted: 12/15/2010

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/16/2010

Injection Volume: 30 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
123-77-3	Kempore	230	U

OLN56 0033

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6165071 SW0-- Sample ID: AA **Batchnumber: 103490027A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: OLN56 State: MA
Analyses: 02726 02727

Analysis Report (A)

Injected on	: DEC 16, 2010 17:57:59
Instrument	: CP09--K3593A
Result file	: 1K11350.15R
Calibration file	: 1K11350.CAL
Method file	: KEMP.MET

Analysis Report (B)

Injected on	: DEC 16, 2010 17:57:59
Instrument	: CP09--K3593B
Result file	: 1K11350B.15R
Calibration file	: 1K11350B.CAL
Method file	: KEMPB.MET

Peak name	Min	R.T.	Max	Height	Amount
Kempore	2.39	2.57	2.59	46	31.747334

Peak name	Min	R.T.	Max	Height	Amount
Kempore	3.75	3.92	3.95	60	580.888672

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Kempore			<1000	<230			

Units: ug/l

Reviewed by: 1566 Date: 12/19/10
Verified by: Date:

DEC 2 1 2010

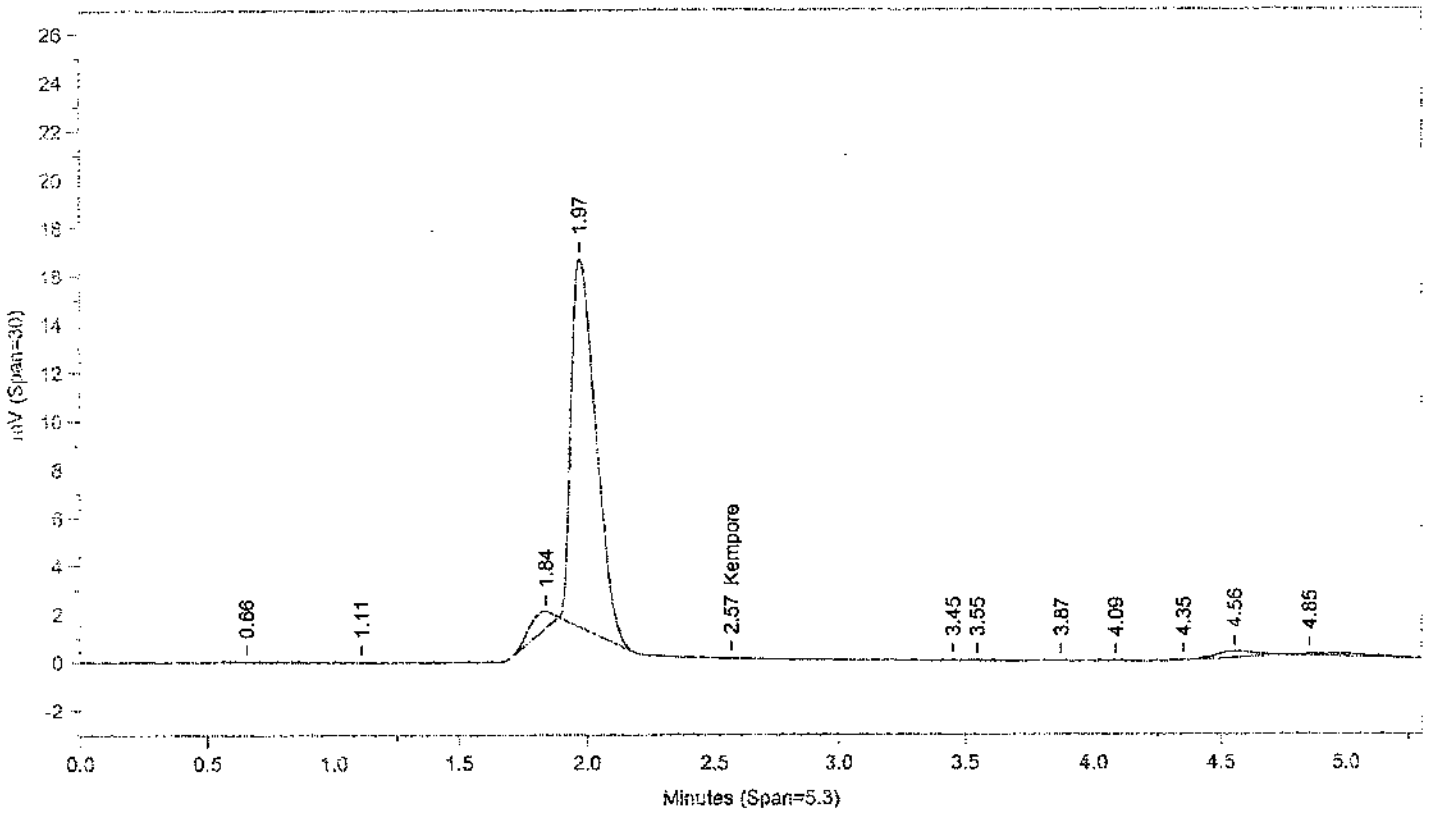
Sarah Snyder
Senior Specialist

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found

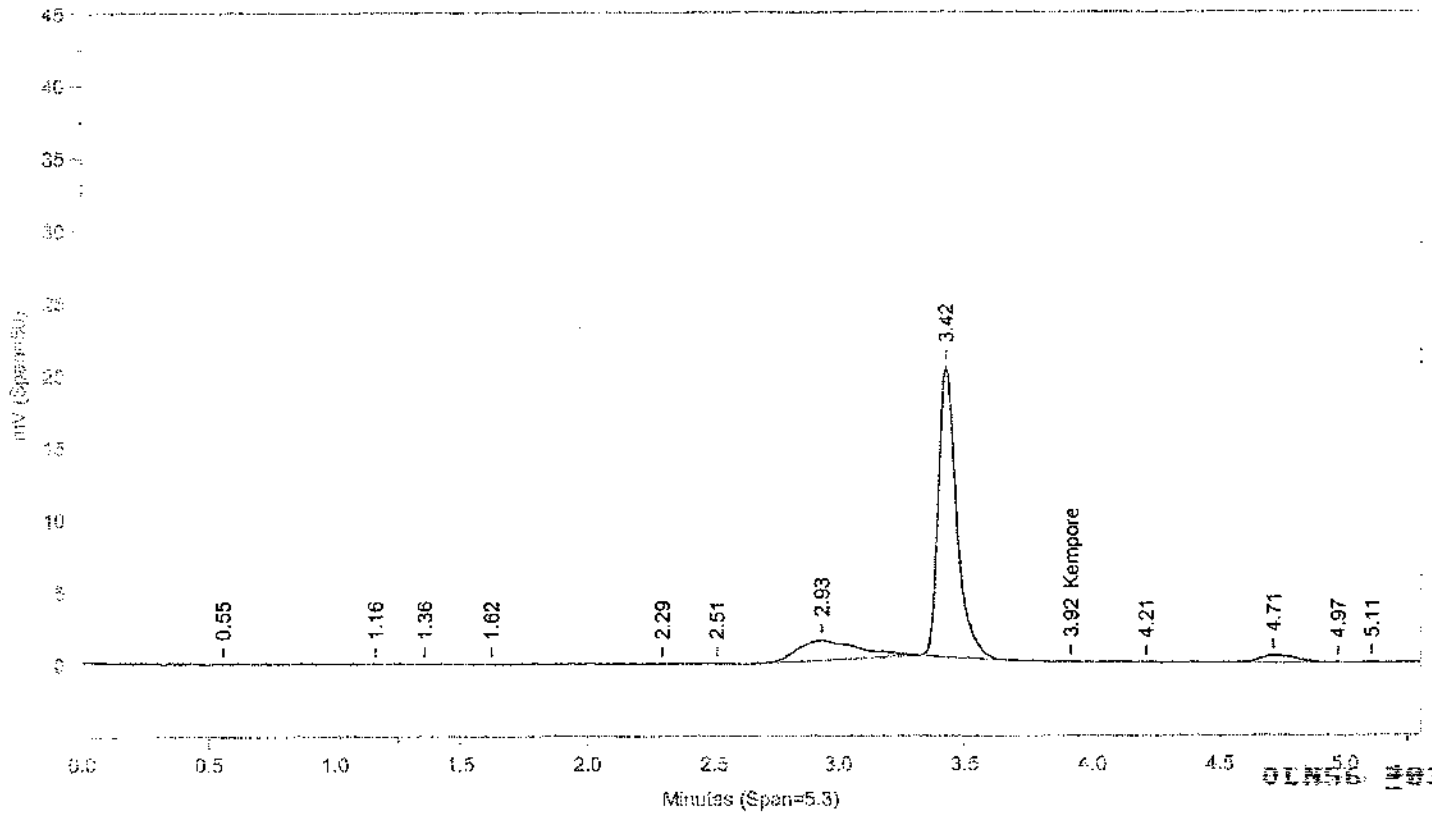
* Recovery outside QC Limits

Printed on: 12/16/10 18:23:10

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1K11350.15R



Instrument ID: CP09–K3593A Injected On: 12/16/2010 5:57:58 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09–K3593B Injected On: 12/16/2010 5:57:58 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 10

Dilution Factor: 10

Analyst: 1566

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.568	46	31.747	Kempore	3.915	60	580.889	Kempore

Files:
Area File: C:\CPWIN\DATA1\1K11350.15A
Area File: C:\CPWIN\DATA1\1K11350B.15A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\1K11350.CAL
Calibration File B: C:\CPWIN\DATA1\1K11350B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/16/2010 6:03:24 PM
File Reported On: 12/16/2010 at 6:03:32 PM

1D

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO.

SW1--

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103490027A

Lab Code: Case No.: SAS No.: SDG No.: OLN56

Matrix: (soil/water) WATER Lab Sample ID: 6165072

Sample wt/vol: 10 (g/ml) ml Lab File ID: 1K11350.16R

% Moisture: Decanted: (Y/N) Date Received: 12/15/2010

Extraction: (SepF/Cont/Sonc) Direct Injection Date Extracted: 12/15/2010

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/16/2010

Injection Volume: 30 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
123-77-3	Kempore	230	U

OLN56 6837

FORM I

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6165072 SW1-- Sample ID: AA **Batchnumber: 103490027A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: OLN56 State: MA
Analyses: 02726 02727

Analysis Report (A)

Injected on	: DEC 16, 2010 18:03:53
Instrument	: CP09--K3593A
Result file	: 1K11350.16R
Calibration file	: 1K11350.CAL
Method file	: KEMP.MET

Analysis Report (B)

Injected on	: DEC 16, 2010 18:03:53
Instrument	: CP09--K3593B
Result file	: 1K11350B.16R
Calibration file	: 1K11350B.CAL
Method file	: KEMPB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Kempore			<1000	<230			

Units: ug/l

Reviewed by: 1566 Date: 12/19/10
Verified by: Date:

DEC 2 1 2010

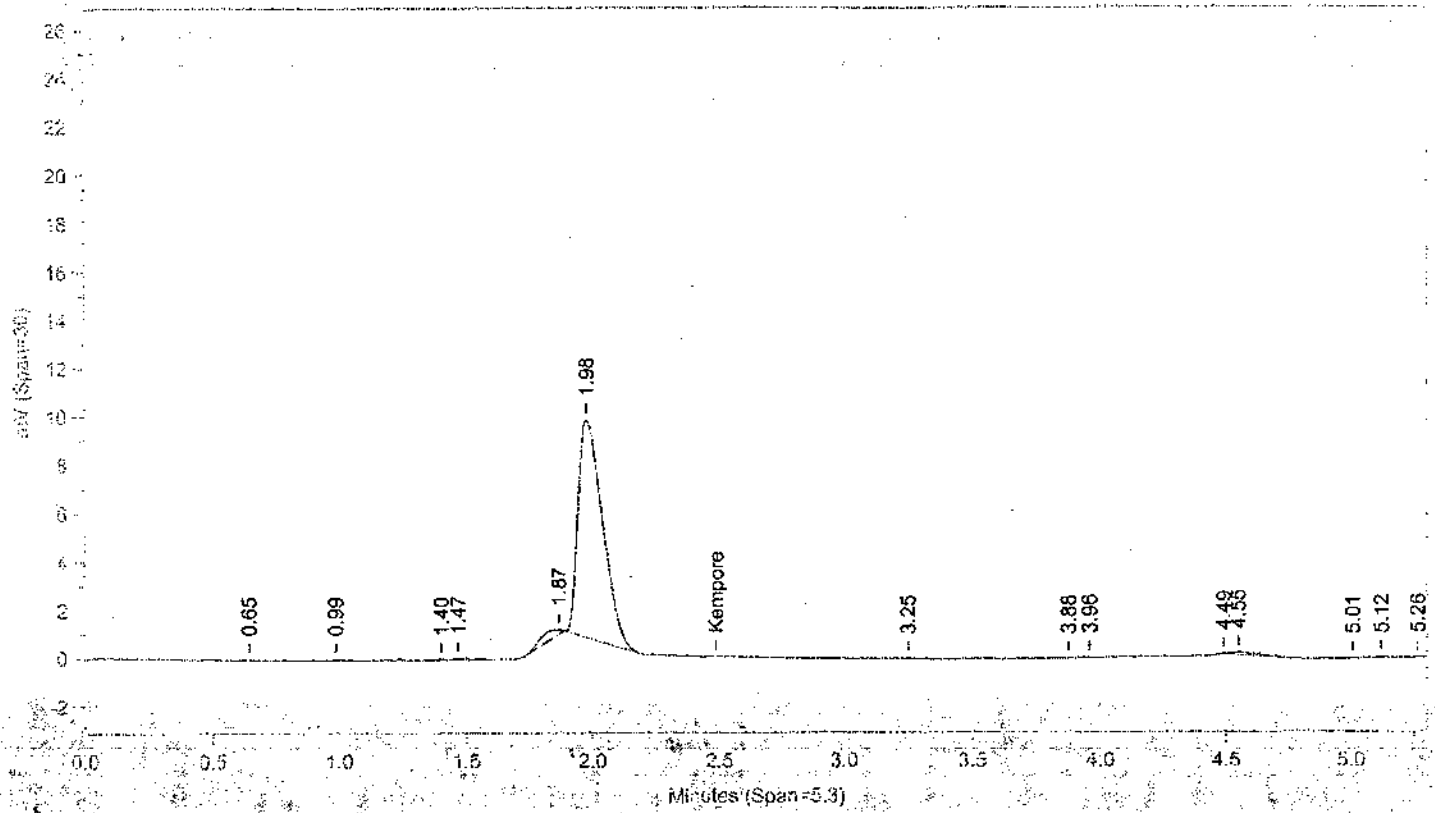
Sarah Snyder
Senior Specialist

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found

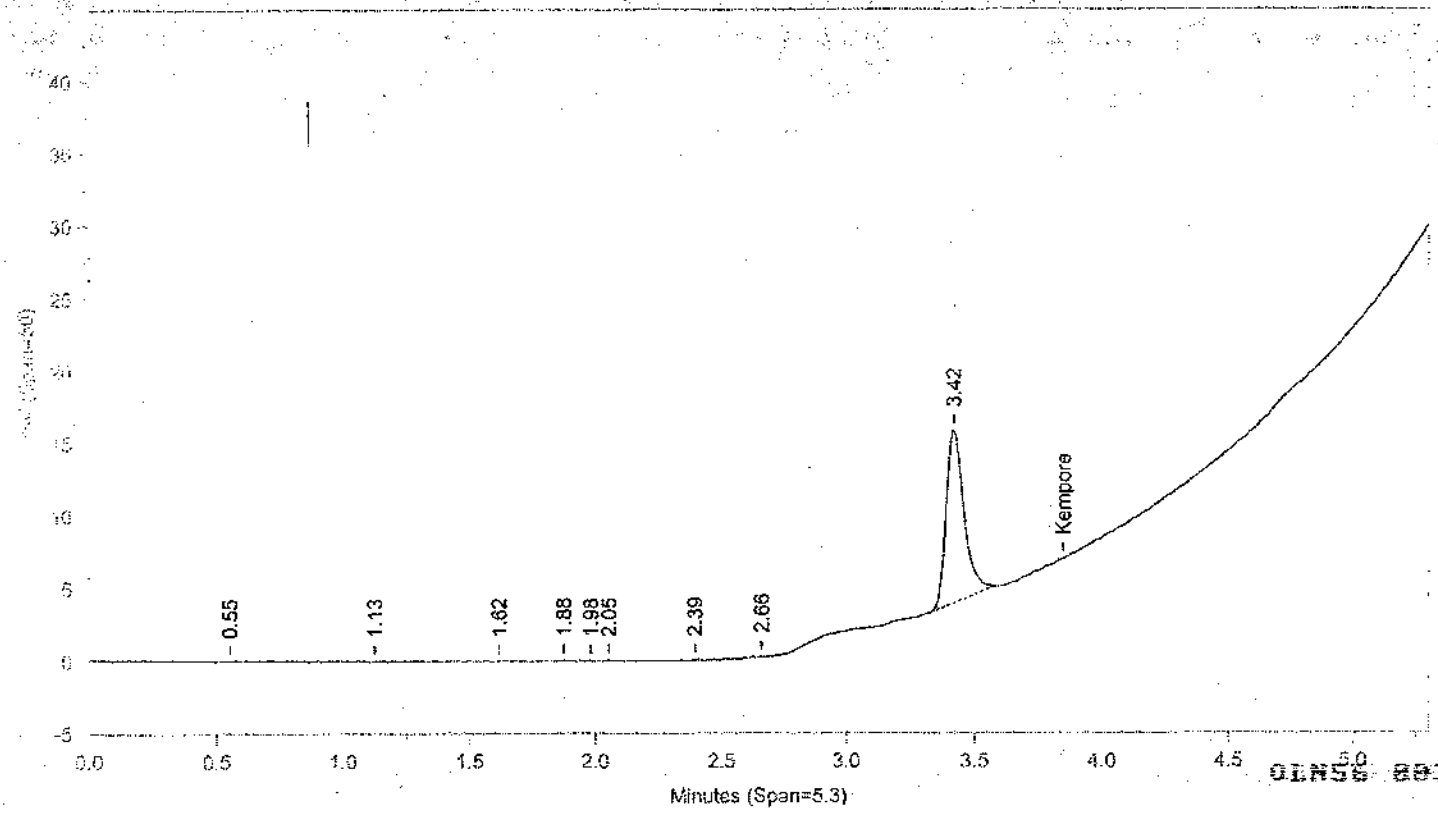
* Recovery outside QC Limits

Printed on: 12/16/10 18:23:34

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1K11350.16R



Instrument ID: CP09--K3593A Injected On: 12/16/2010 6:03:52 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/16/2010 6:03:52 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B

Files:
Area File: C:\CPWIN\DATA1\1K11350.16A
Area File: C:\CPWIN\DATA1\1K11350B.16A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\1K11350.CAL
Calibration File B: C:\CPWIN\DATA1\1K11350B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/16/2010 6:09:16 PM
File Reported On: 12/16/2010 at 6:09:25 PM

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO.
SW2--

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103490027A

Lab Code: Case No.: SAS No.: SDG No.: OLN56

Matrix: (soil/water) WATER Lab Sample ID: 6165073

Sample wt/vol: 10 (g/ml) ml Lab File ID: 1K11350.17R

% Moisture: Decanted: (Y/N) Date Received: 12/15/2010

Extraction: (SepF/Cont/Sonc) Direct Injection Date Extracted: 12/15/2010

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/16/2010

Injection Volume: 30 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
123-77-3	Kempore	230	U

OLN56 9841

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6165073 SW2-- Sample ID: AA **Batchnumber: 103490027A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: OLN56 State: MA
Analyses: 02726 02727

Analysis Report (A)

Injected on	: DEC 16, 2010 18:09:47
Instrument	: CP09--K3593A
Result file	: 1K11350.17R
Calibration file	: 1K11350.CAL
Method file	: KEMP.MET

Analysis Report (B)

Injected on	: DEC 16, 2010 18:09:47
Instrument	: CP09--K3593B
Result file	: 1K11350B.17R
Calibration file	: 1K11350B.CAL
Method file	: KEMPB.MET

Peak name	Min	R.T.	Max	Height	Amount
Kempore	2.39	2.56	2.59	40	27.815083

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Kempore			<1000	<230			

Units: ug/l

Reviewed by: _____ Date: 12/19/10

Verified by: _____ Date: _____

DEC 2 1 2010

Sarah Snyder
Senior Specialist

%Difference = High - Low Amount divided by the Average times 100

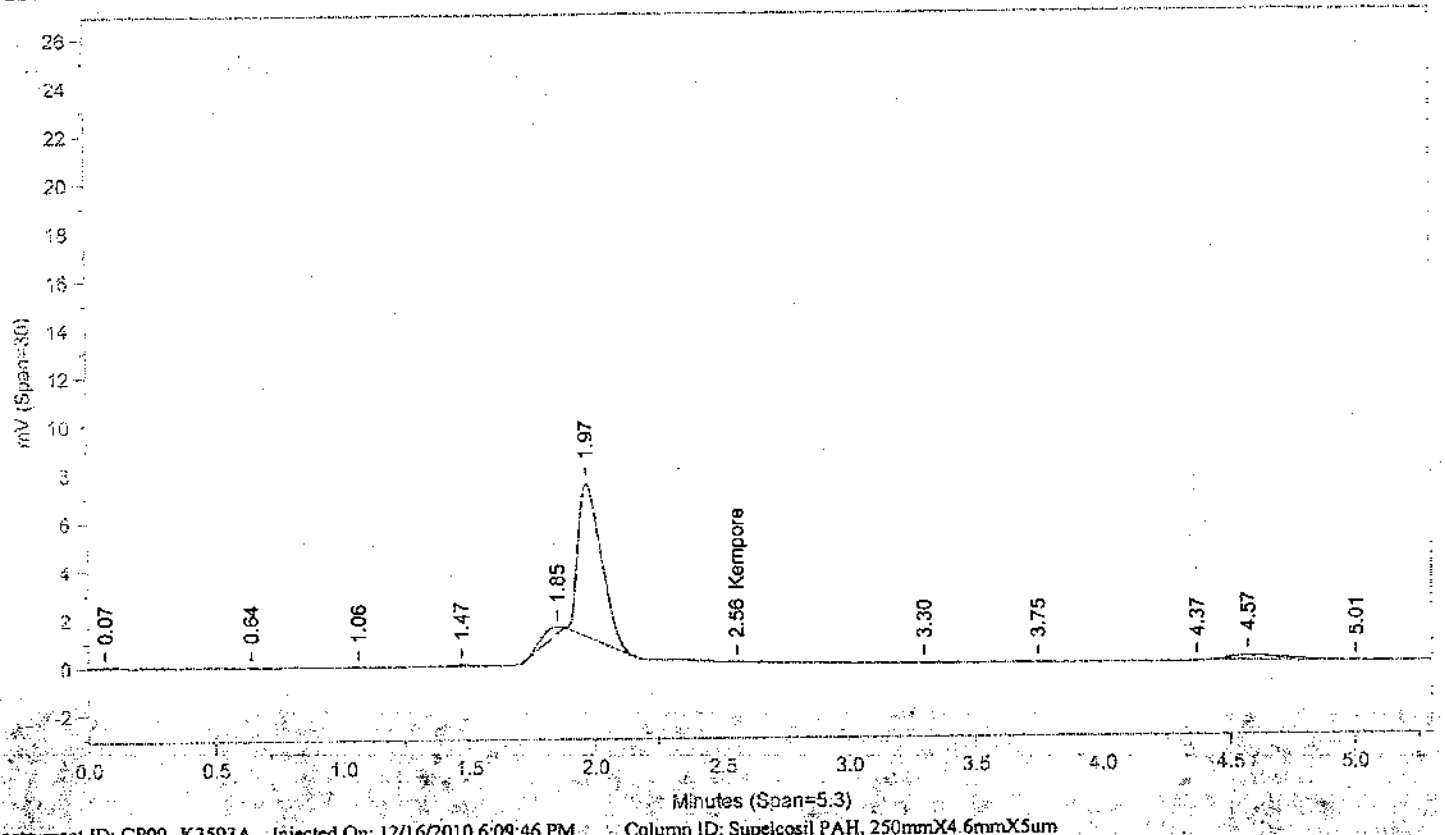
Higher Amount Found

DATE: 0842

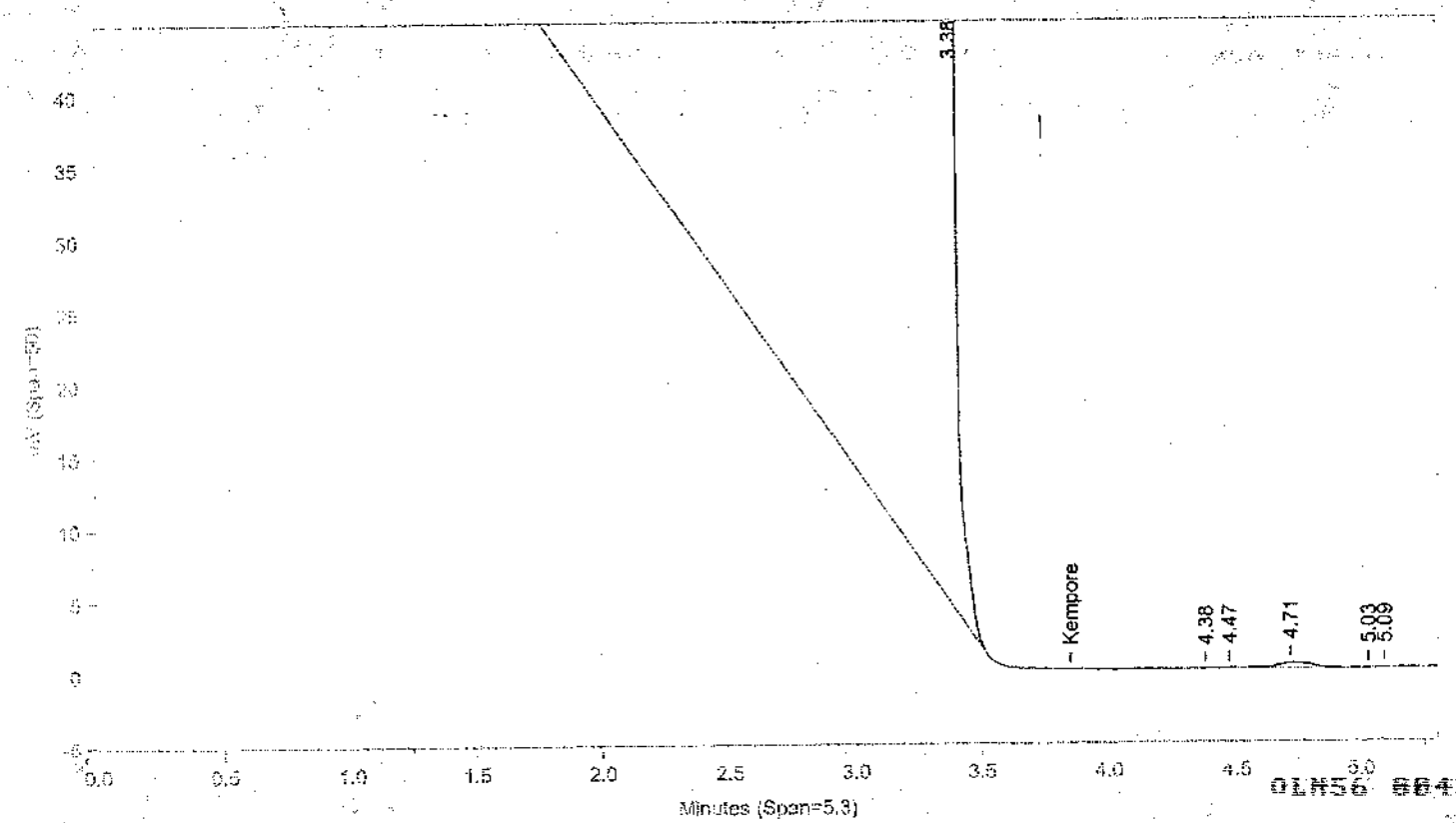
* Recovery outside QC Limits

Printed on: 12/16/10 18:23:54

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\K11350.17R



Instrument ID: CP09--K3593A Injected On: 12/16/2010 6:09:46 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/16/2010 6:09:46 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.558	40	27.815	Kempore			0	Kempore

Files:
Area File: C:\CPWIN\DATA1\IK11350.17A
Area File: C:\CPWIN\DATA1\IK11350B.17A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\IK11350.CAL
Calibration File B: C:\CPWIN\DATA1\IK11350B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/16/2010 6:15:12 PM
File Reported On: 12/16/2010 at 6:15:21 PM

1D

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO.

SW5--

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103490027A

Lab Code: Case No.: SAS No.: SDG No.: OLN56

Matrix: (soil/water) WATER Lab Sample ID: 6165074

Sample wt/vol: 10 (g/ml) ml Lab File ID: 1K11350.18R

% Moisture: Decanted: (Y/N) Date Received: 12/15/2010

Extraction: (SepF/Cont/Sonc) Direct Injection Date Extracted: 12/15/2010

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/16/2010

Injection Volume: 30 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
123-77-3	Kempore	230	U

OLN56 [illegible]

FORM I

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6165074 SW5-- Sample ID: AA **Batchnumber: 103490027A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: OLN56 State: MA
Analyses: 02726 02727

Analysis Report (A)

Injected on	: DEC 16, 2010 18:15:41
Instrument	: CP09--K3593A
Result file	: 1K11350.18R
Calibration file	: 1K11350.CAL
Method file	: KEMP.MET

Analysis Report (B)

Injected on	: DEC 16, 2010 18:15:41
Instrument	: CP09--K3593B
Result file	: 1K11350B.18R
Calibration file	: 1K11350B.CAL
Method file	: KEMPB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Kempore			<1000	<230			

Units: ug/l

Reviewed by: 1566 Date: 12/15/10
Verified by: Date:

DEC 2 1 2010

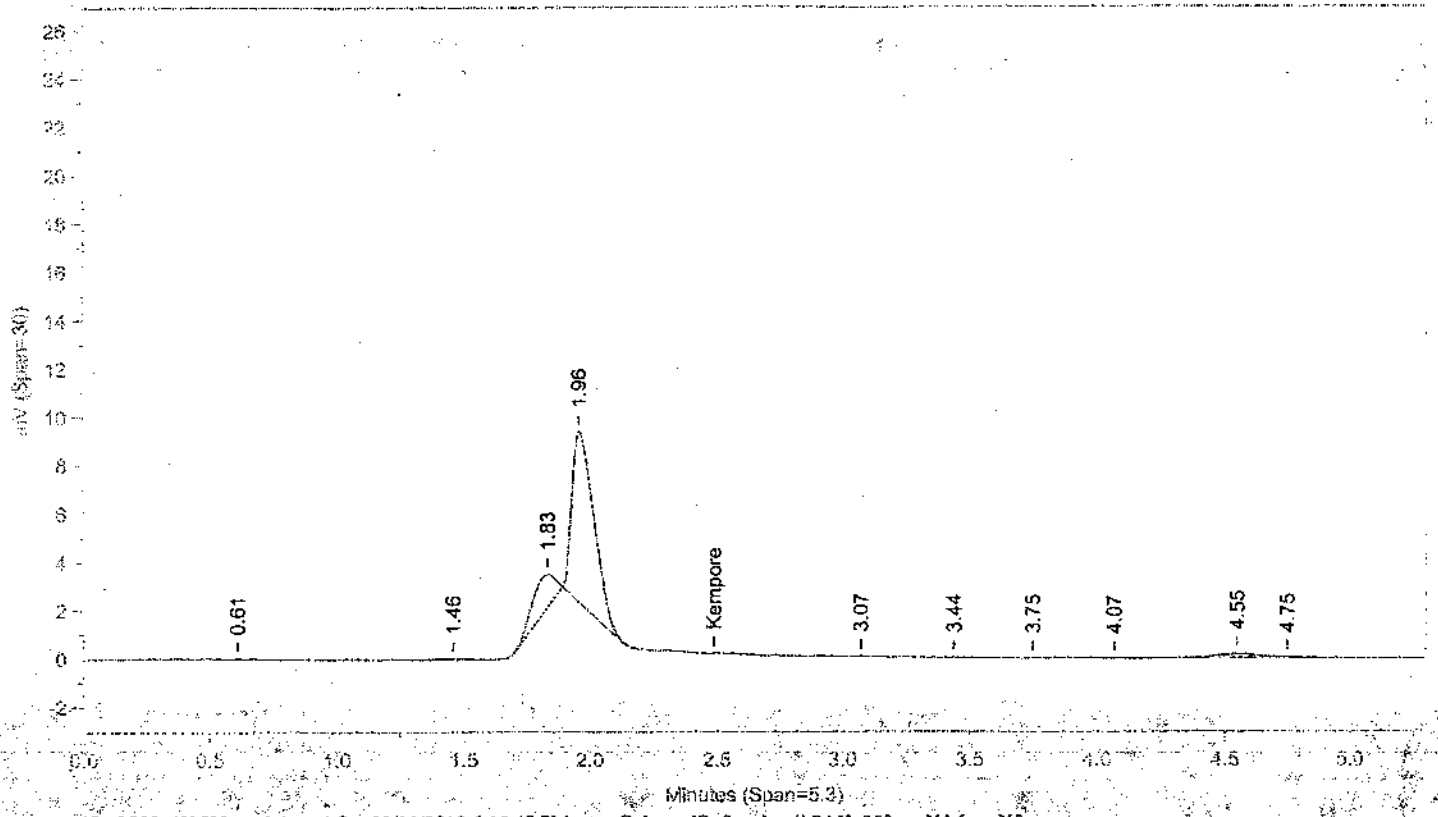
Sarah Snyder
Senior Specialist

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found

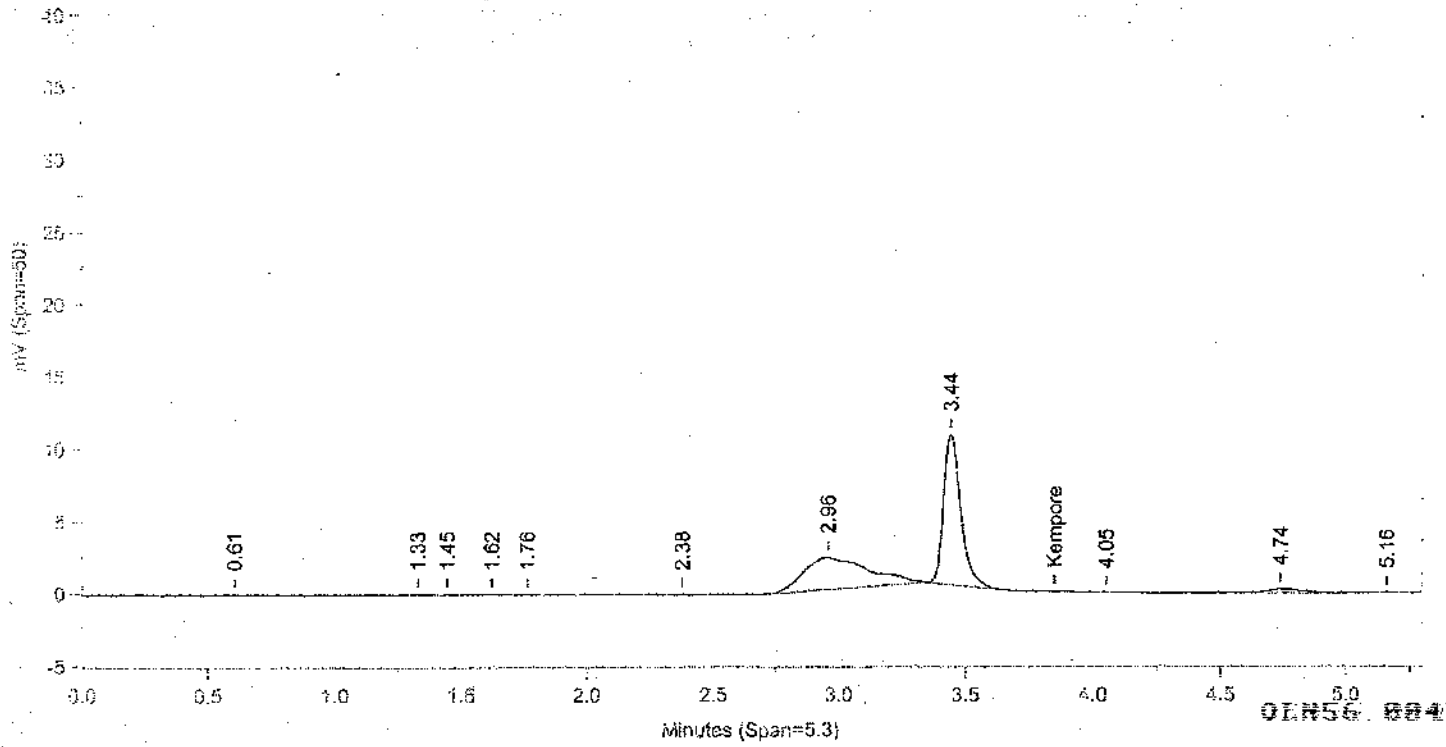
* Recovery outside QC Limits

Printed on: 12/16/10 18:24:11

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA3\1K11350.18R



Instrument ID: CP09--K3593A Injected On: 12/16/2010 6:15:40 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/16/2010 6:15:40 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B

Files:
Area File: C:\CPWIN\DATA1\IK11350.18A
Area File: C:\CPWIN\DATA1\IK11350B.18A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\IK11350.CAL
Calibration File B: C:\CPWIN\DATA1\IK11350B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/16/2010 6:21:06 PM
File Reported On: 12/16/2010 at 6:21:15 PM

Standards Data

Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\cp9\C-Drive\CPWIN\DATA1\1K11349.seq

Chromatography Directory: \\cp9\C-Drive\CPWIN\data1

Method Directory: \\cp9\C-Drive\CPWIN\data1

Number of Entries: 30

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	MISC	AA	1K11349.01R	KEMP.MET	1	1	1	0	1034899999	
2	CONDITIONER	MISC	AA	1K11349.02R	KEMP.MET	1	1	1	0	1034899999	
3	CONDITIONER	MISC	AA	1K11349.03R	KEMP.MET	1	1	1	0	1034899999	
4	KEMP11024C	ICAL	AA	1K11349.04R	KEMP.MET	1	1	1	2	1034899999	
5	KEMP21024C	ICAL	AA	1K11349.05R	KEMP.MET	1	1	1	3	1034899999	
6	KEMP31024C	ICAL	AA	1K11349.06R	KEMP.MET	1	1	1	4	1034899999	
7	KEMP41024C	ICAL	AA	1K11349.07R	KEMP.MET	1	1	1	5	1034899999	
8	KEMP51024C	ICAL	AA	1K11349.08R	KEMP.MET	1	1	1	6	1034899999	
9	MDKRX1024C	ICAL	AA	1K11349.09R	KEMP.MET	1	1	1	1	1034899999	
10	BLANKA 12/15/10	BLK	AA	1K11349.10R	KEMP.MET	10	10	1	0	103490027A	02726
11	LCSA 12/15/10	LCS	AA	1K11349.11R	KEMP.MET	10	10	1	0	103490027A	02726
12	LCSDA 12/15/10	LCSD	AA	1K11349.12R	KEMP.MET	10	10	1	0	103490027A	02726
13	6162682R	T	AA	1K11349.13R	KEMP.MET	10	10	1	0	103490027A	02726
14	6162683R	T	AA	1K11349.14R	KEMP.MET	10	10	1	0	103490027A	02726
15	6162684R	T	AA	1K11349.15R	KEMP.MET	10	10	1	0	103490027A	02726
16	6162685RMS	MS	AA	1K11349.16R	KEMP.MET	10	10	1	0	103490027A	02726
17	6162686RMSD	MSD	AA	1K11349.17R	KEMP.MET	10	10	1	0	103490027A	02726
18	6162688R	T	AA	1K11349.18R	KEMP.MET	10	10	1	0	103490027A	02726
19	6162689R	T	AA	1K11349.19R	KEMP.MET	10	10	1	0	103490027A	02726
20	KEMP31024C	CCAL	EA	1K11349.20R	KEMP.MET	1	1	1	0	1034899999	
21	6162690R	T	AA	1K11349.21R	KEMP.MET	10	10	1	0	103490027A	02726
22	6162691R	T	AA	1K11349.22R	KEMP.MET	10	10	1	0	103490027A	02726
23	6162692R	T	AA	1K11349.23R	KEMP.MET	10	10	1	0	103490027A	02726
24	6162693R	T	AA	1K11349.24R	KEMP.MET	10	10	1	0	103490027A	02726
25	6162694R	T	AA	1K11349.25R	KEMP.MET	10	10	1	0	103490027A	02726
26	6165071	T	AA	1K11349.26R	KEMP.MET	10	10	1	0	103490027A	02726
27	6165072	T	AA	1K11349.27R	KEMP.MET	10	10	1	0	103490027A	02726
28	6165073	T	AA	1K11349.28R	KEMP.MET	10	10	1	0	103490027A	02726
29	6165074	T	AA	1K11349.29R	KEMP.MET	10	10	1	0	103490027A	02726
30	KEMP31024C	CCAL	EB	1K11349.30R	KEMP.MET	1	1	1	0	1034899999	

01N56 8858

Set-up by: _____ Date: 12/15/10

12/15/2010

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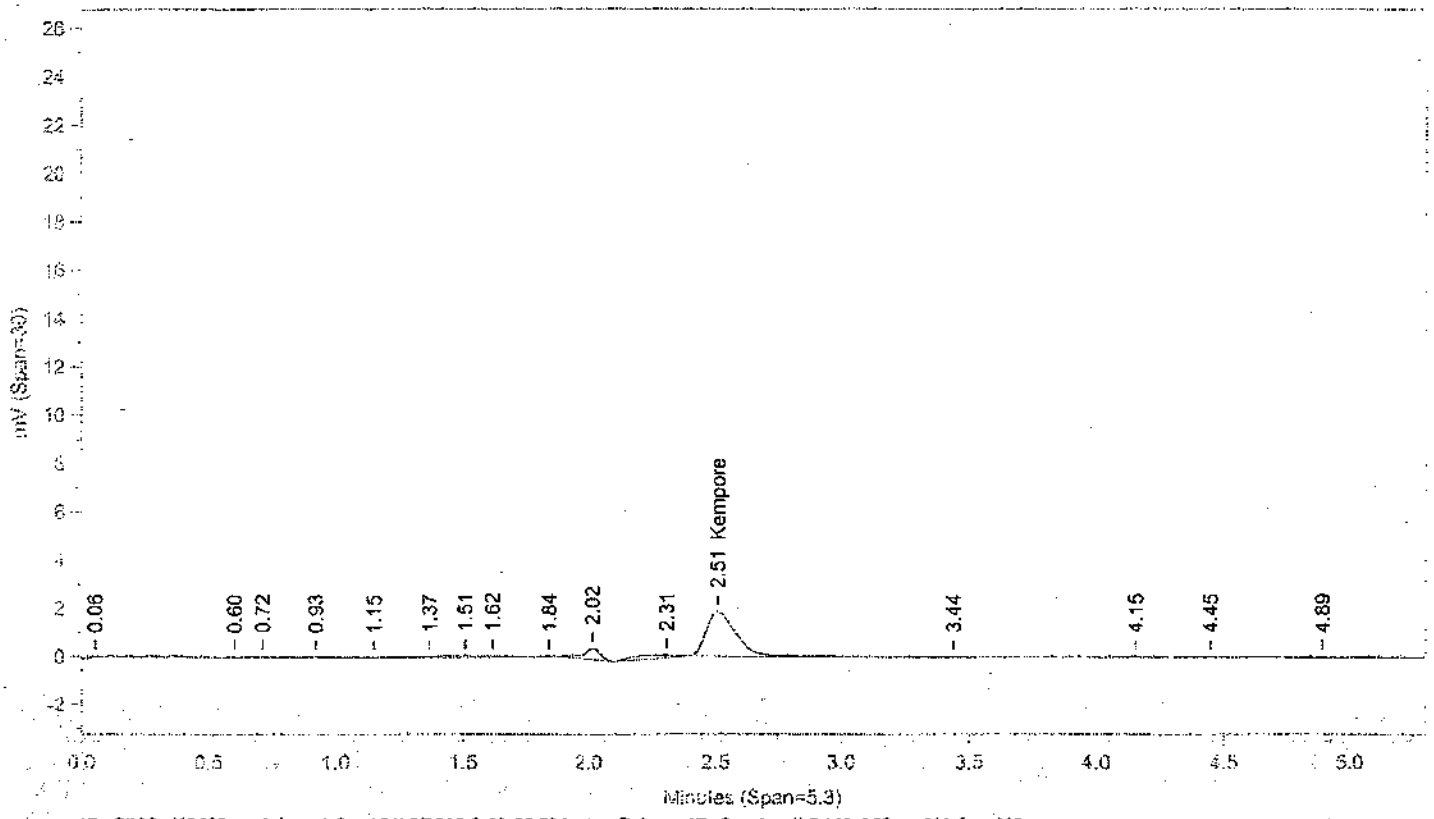
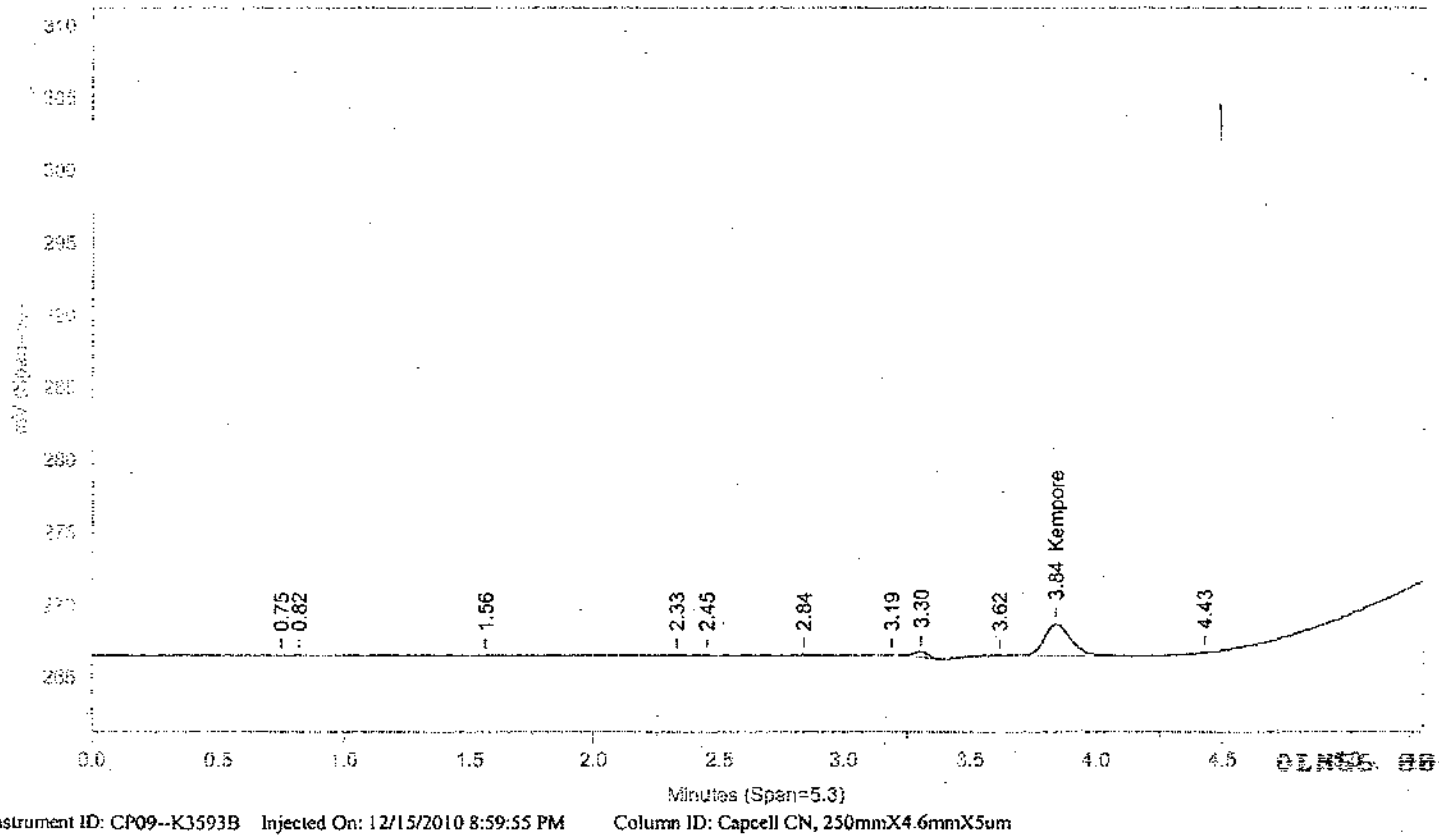
FILE NAME: C:\CPWIN\DATA\1\K11349.04R



Instrument ID: CP09--K3593A Injected On: 12/15/2010 8:59:55 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/15/2010 8:59:55 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

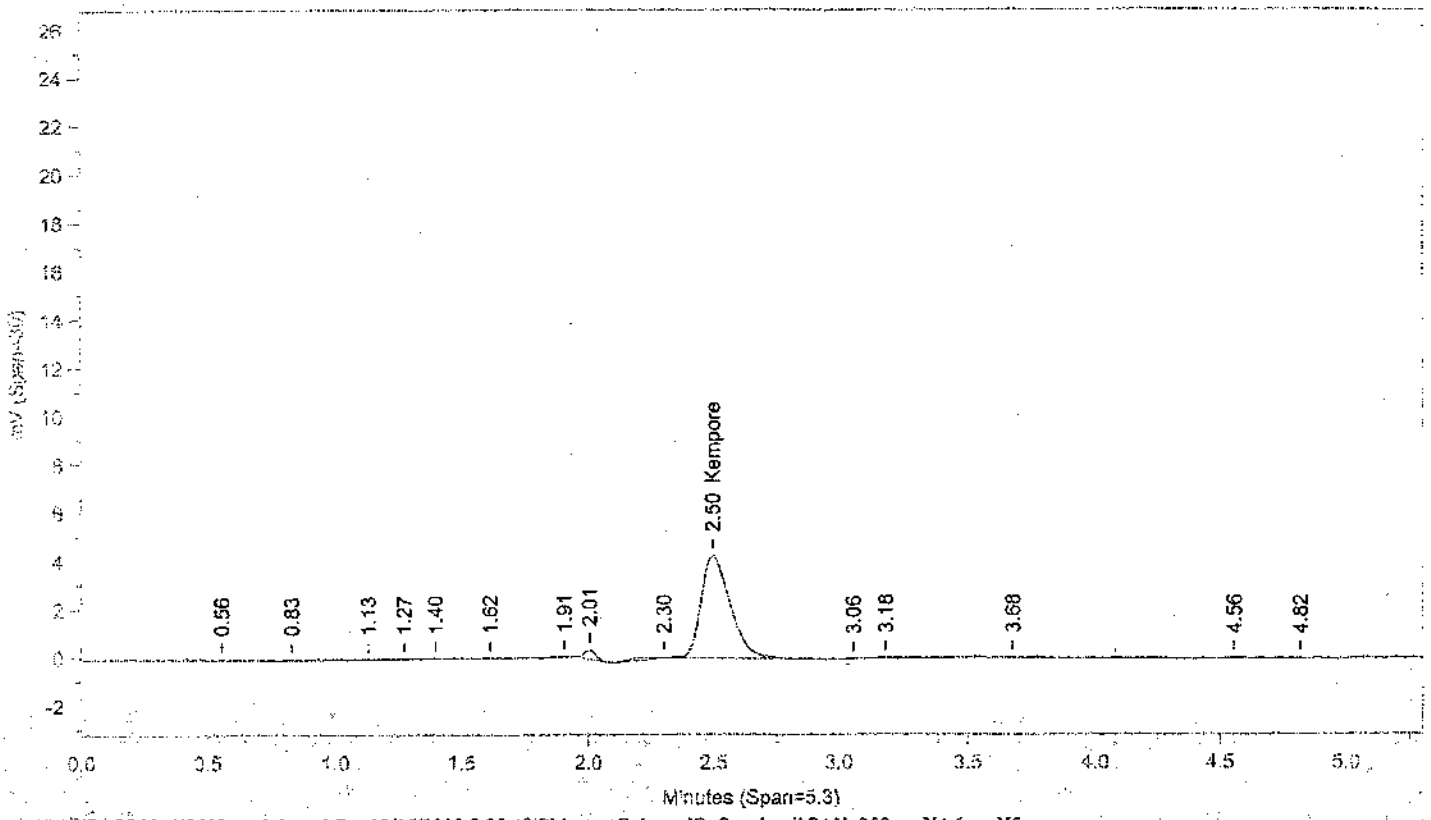
Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

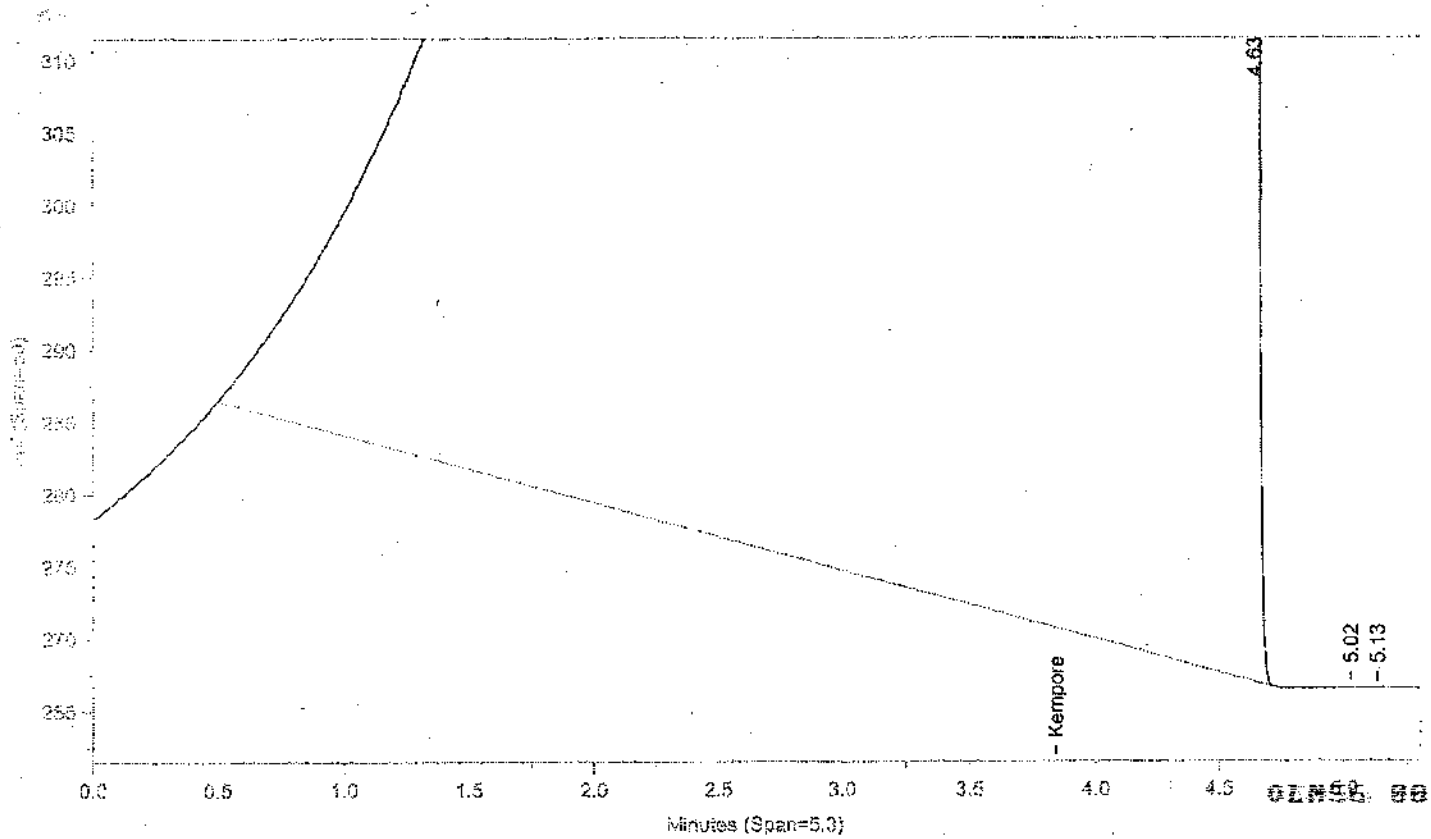
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.509	1837	-46478.59	Kempore	3.841	2179	-33265.97	Kempore

Files:
Area File: C:\CPWIN\DATA1\IK11349.04A
Area File: C:\CPWIN\DATA1\IK11349B.04A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\IK11349.CAL
Calibration File B: C:\CPWIN\DATA1\IK11349B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/15/2010 9:40:14 PM
File Reported On: 12/15/2010 at 9:40:25 PM

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA\1\K1349.05R



Instrument ID: CP09--K3593A Injected On: 12/15/2010 9:05:48 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/15/2010 9:05:48 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

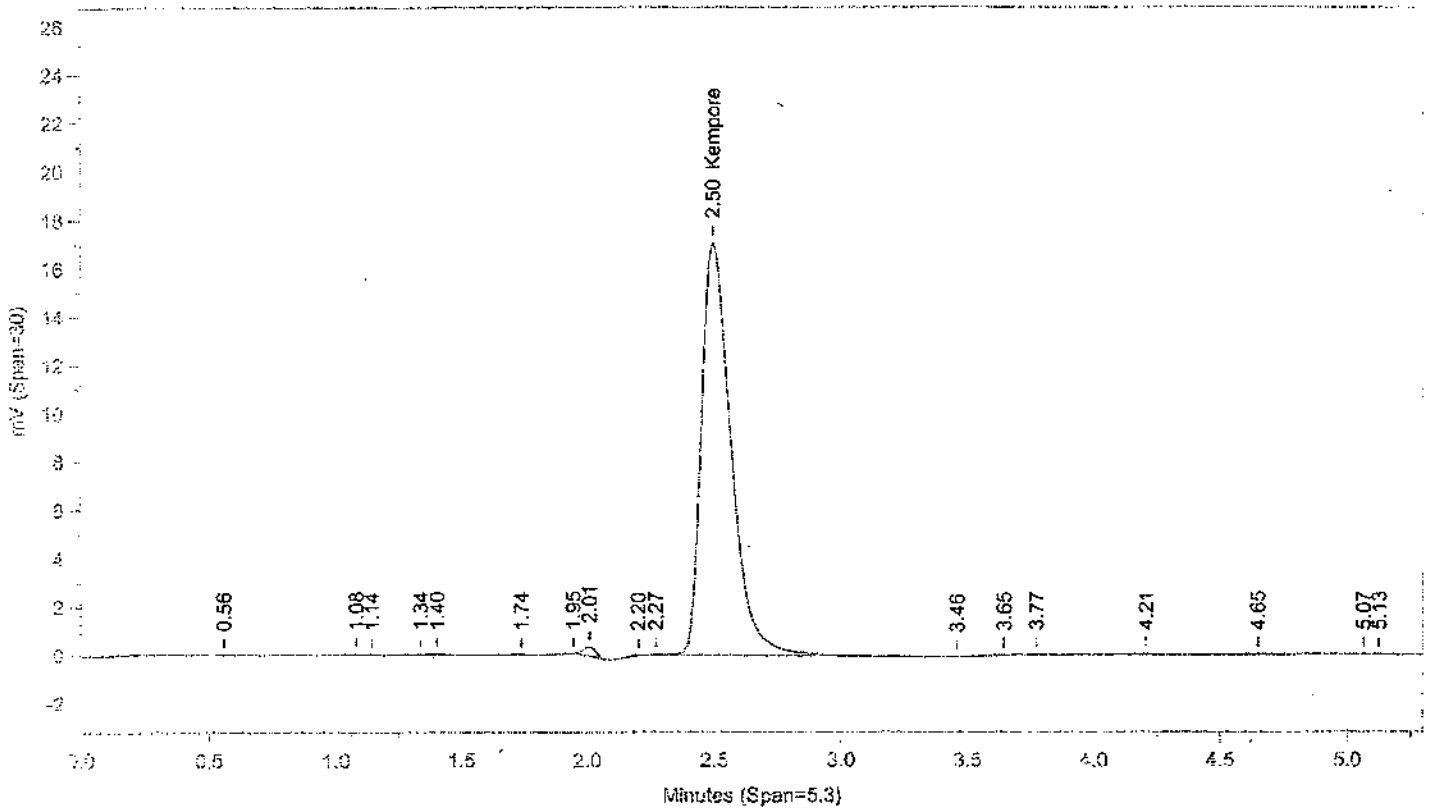
Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

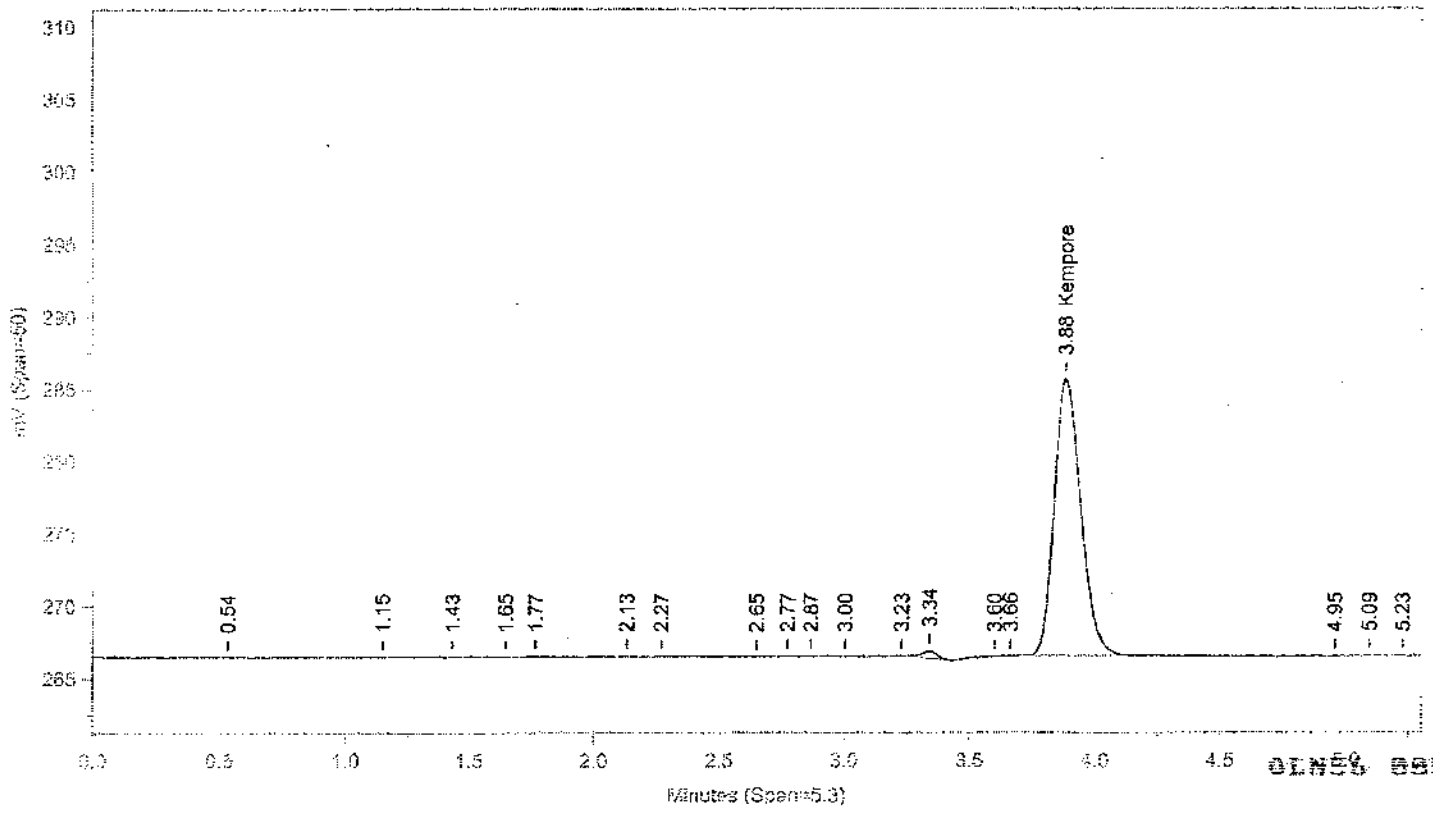
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.498	4232	-31175.23	Kempore			0	Kempore

Files:
Area File: C:\CPWIN\DATA1\IK11349.05A
Area File: C:\CPWIN\DATA1\IK11349B.05A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\IK11349.CAL
Calibration File B: C:\CPWIN\DATA1\IK11349B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/15/2010 9:40:40 PM
File Reported On: 12/15/2010 at 9:40:51 PM

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1K11349.06R



Instrument ID: CP09--K3593A Injected On: 12/15/2010 9:11:41 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/15/2010 9:11:41 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

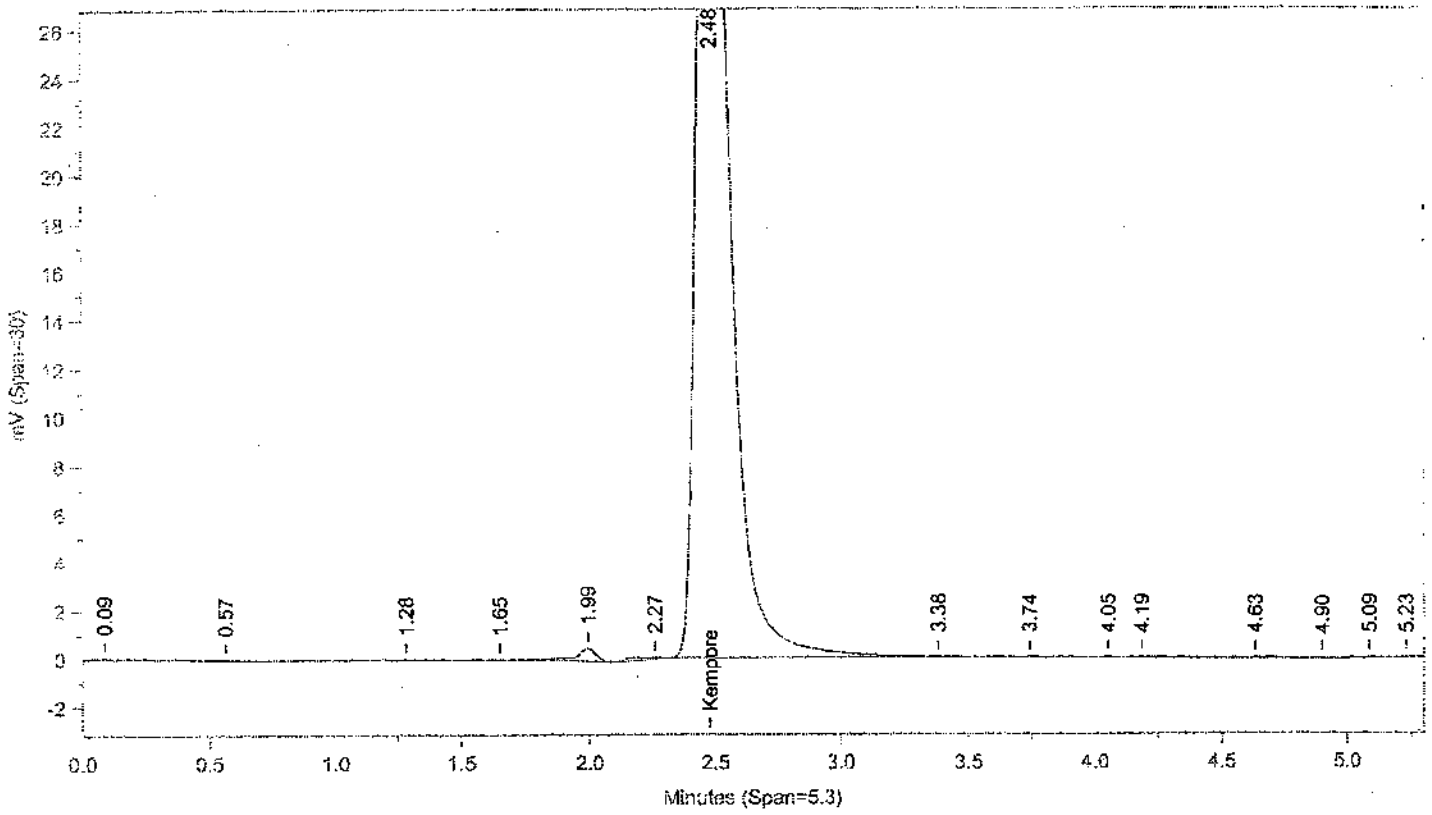
Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

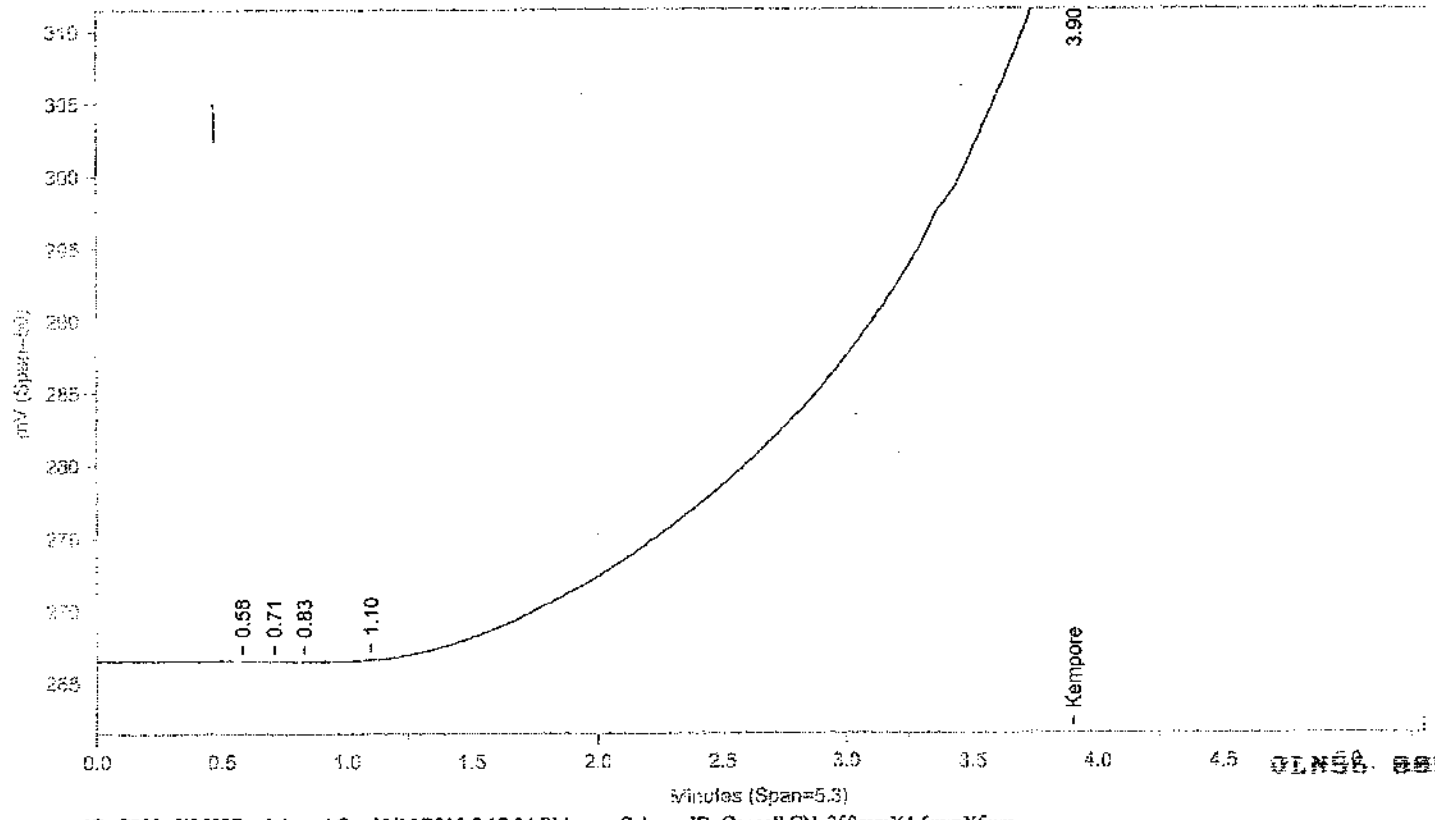
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.496	17084	50935.75	Kempore	3.884	19190	52784.43	Kempore

Files:
Area File: C:\CPWIN\DATA1\1K11349.06A
Area File: C:\CPWIN\DATA1\1K11349B.06A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\1K11349.CAL
Calibration File B: C:\CPWIN\DATA1\1K11349B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/15/2010 9:41:04 PM
File Reported On: 12/15/2010 at 9:41:16 PM

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\K11349.07R



Instrument ID: CP09--K3593A Injected On: 12/15/2010 9:17:34 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/15/2010 9:17:34 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

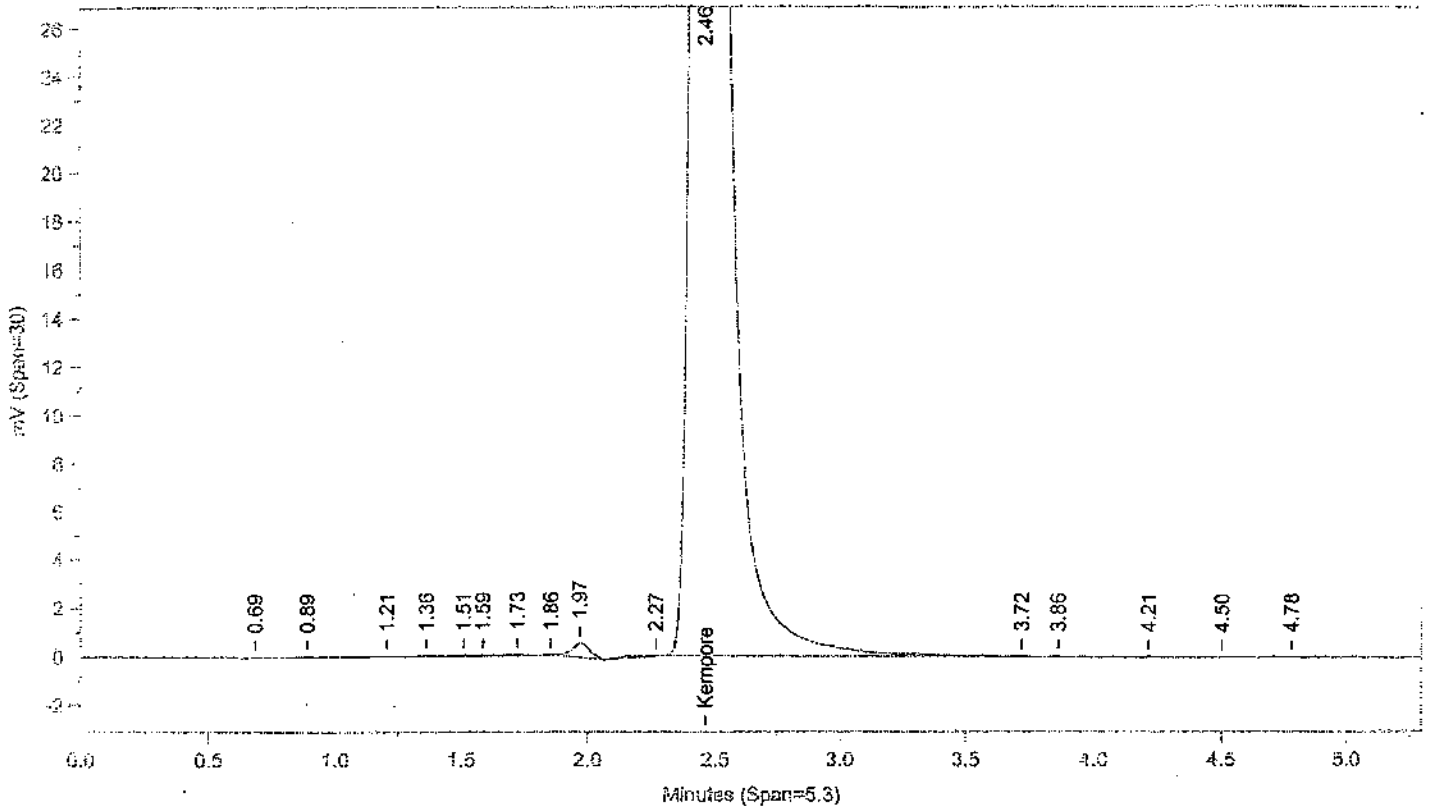
Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

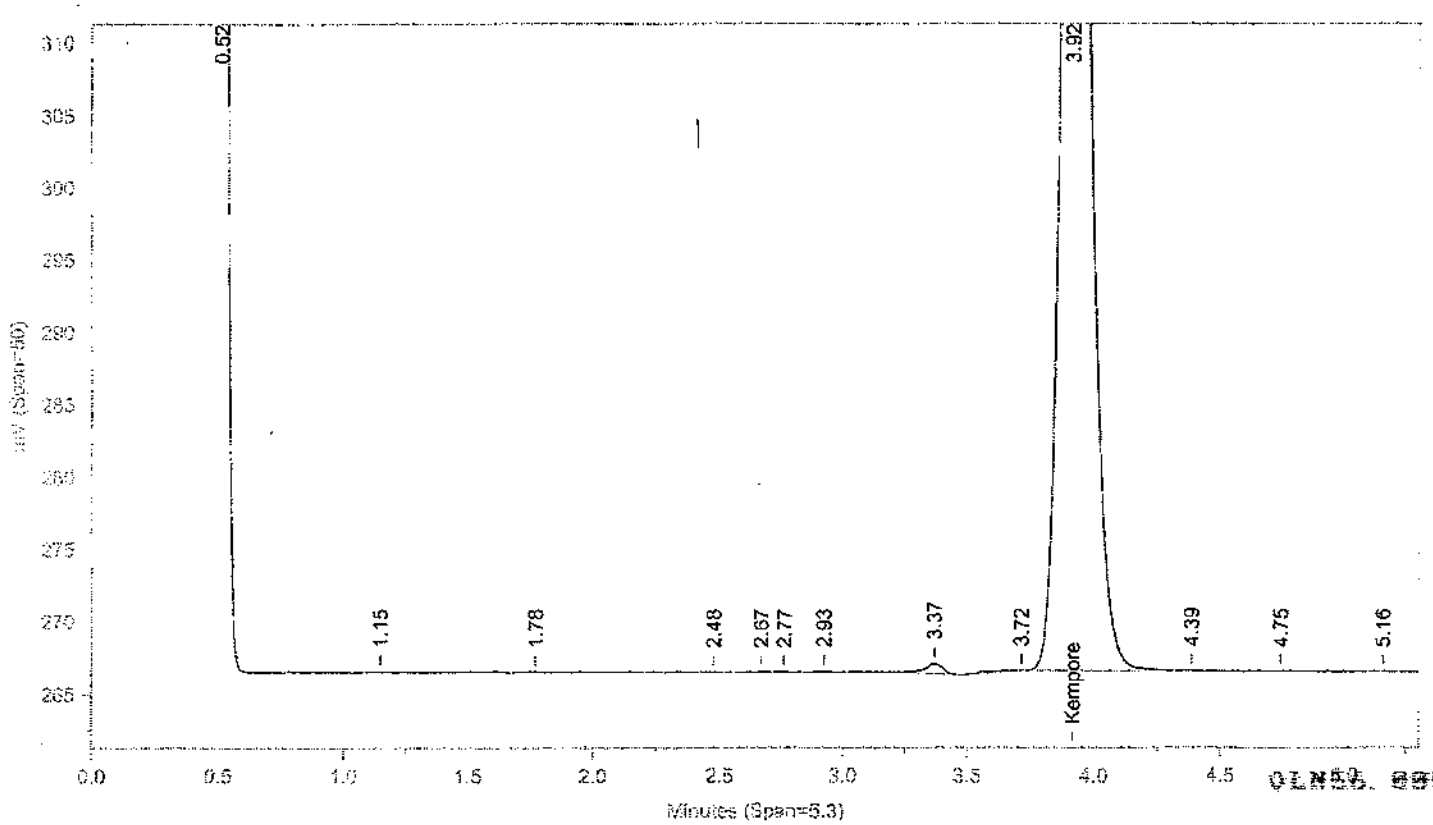
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.48	44822	228150.6	Kempore	3.904	48341	200238.3	Kempore

Files:
Area File: C:\CPWIN\DATA1\1K11349.07A
Area File: C:\CPWIN\DATA1\1K11349B.07A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\1K11349.CAL
Calibration File B: C:\CPWIN\DATA1\1K11349B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/15/2010 9:41:30 PM
File Reported On: 12/15/2010 at 9:41:41 PM

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\IK11349.08R



Instrument ID: CP09--K3593A Injected On: 12/15/2010 9:23:27 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/15/2010 9:23:27 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

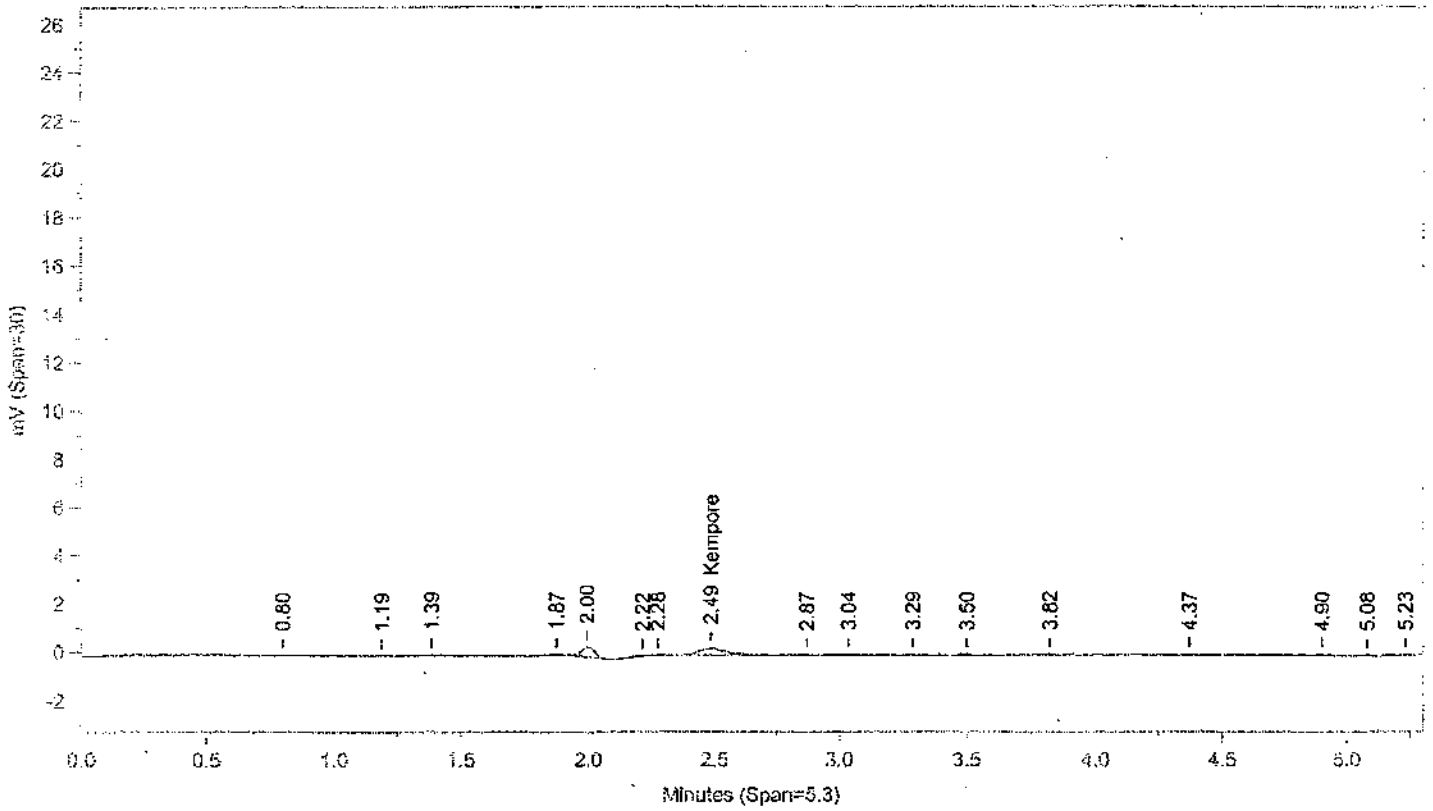
Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

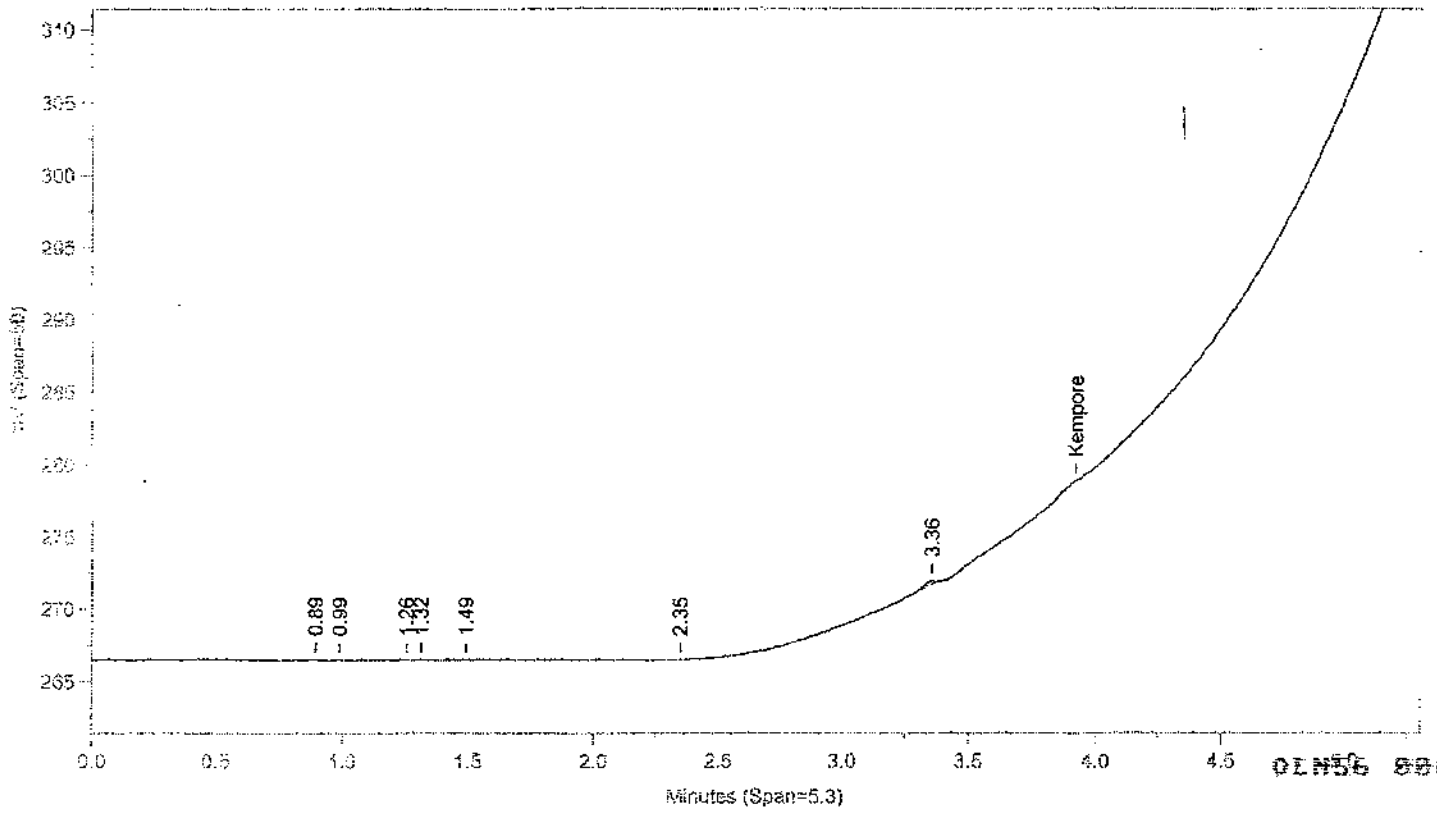
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.461	85791	489904.9	Kempore	3.916	95143	436980.	Kempore

Files:
Area File: C:\CPWIN\DATA1\IK11349.08A
Area File: C:\CPWIN\DATA1\IK11349B.08A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\IK11349.CAL
Calibration File B: C:\CPWIN\DATA1\IK11349B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/15/2010 9:41:56 PM
File Reported On: 12/15/2010 at 9:42:07 PM

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1K11349.09R



Instrument ID: CP09--K3593A Injected On: 12/15/2010 9:29:19 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/15/2010 9:29:19 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

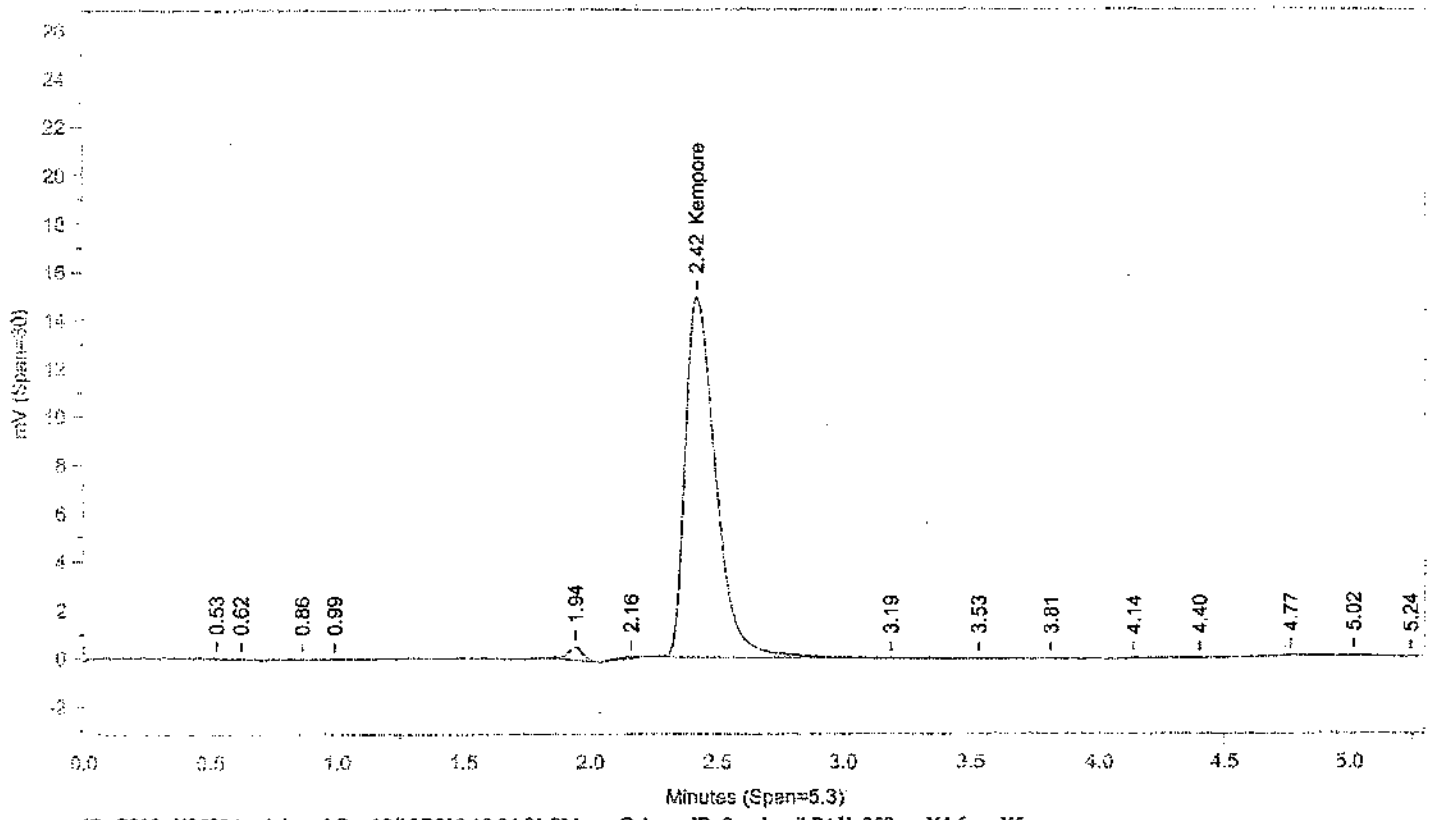
Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

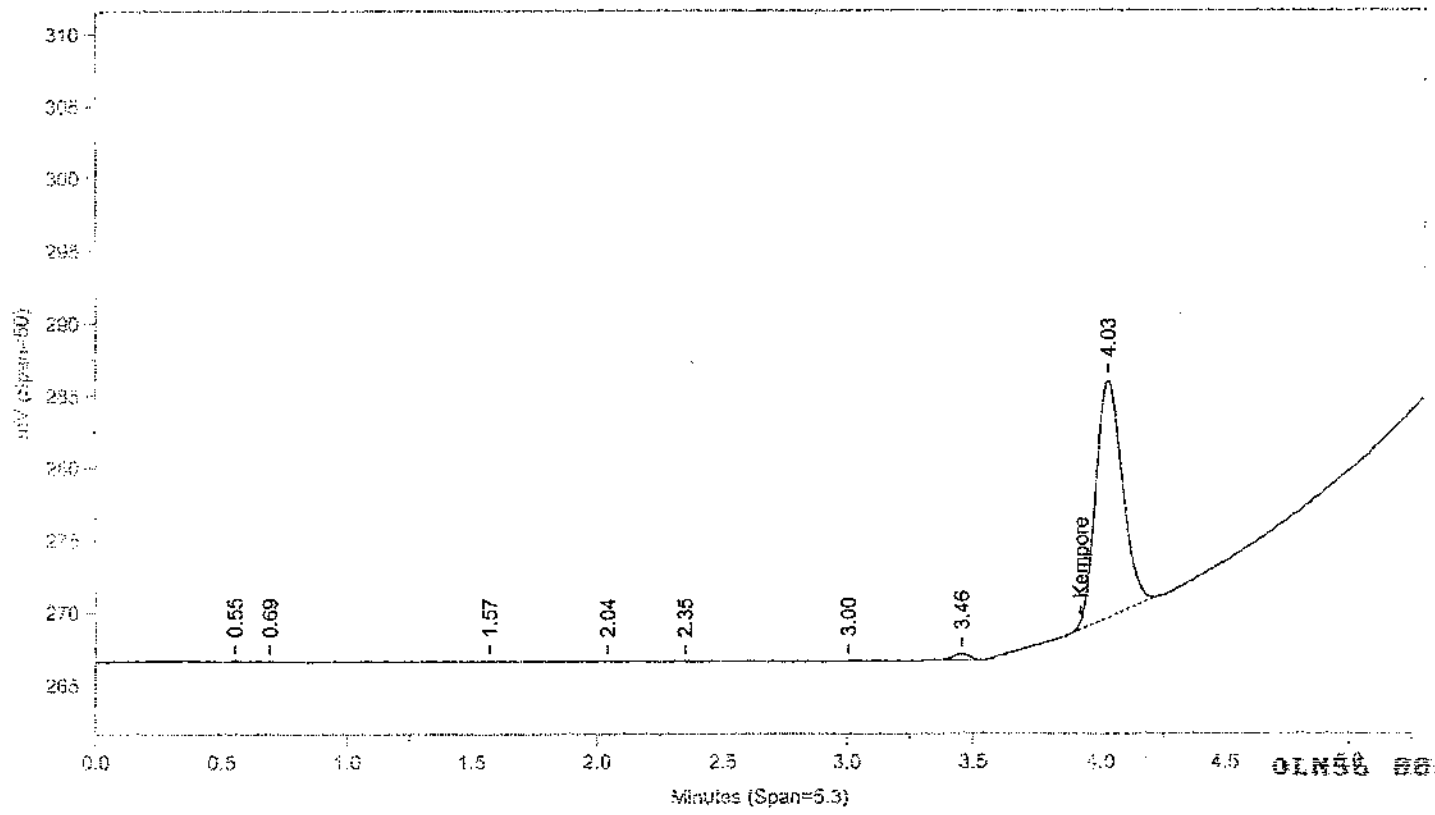
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.486	297	77.909	Kempore			0	Kempore

Files:
Area File: C:\CPWIN\DATA1\IK11349.09A
Area File: C:\CPWIN\DATA1\IK11349B.09A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\IK11349.CAL
Calibration File B: C:\CPWIN\DATA1\IK11349B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/15/2010 9:42:22 PM
File Reported On: 12/15/2010 at 9:42:33 PM

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA\1\K11349.20R



Instrument ID: CP09--K3593A Injected On: 12/15/2010 10:34:01 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/15/2010 10:34:01 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.421	14926	8574.526	Kempore			0	Kempore

Files:
Area File: C:\CPWIN\DATA1\UK11349.20A
Area File: C:\CPWIN\DATA1\UK11349B.20A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\UK11349.CAL
Calibration File B: C:\CPWIN\DATA1\UK11349B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/15/2010 10:39:26 PM
File Reported On: 12/15/2010 at 10:39:35 PM

Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\cp9\C-Drive\CPWIN\DATA1\1K11350.seq

Chromatography Directory: \\cp9\C-Drive\CPWIN\data1

Method Directory: \\cp9\C-Drive\CPWIN\data1

Number of Entries: 19

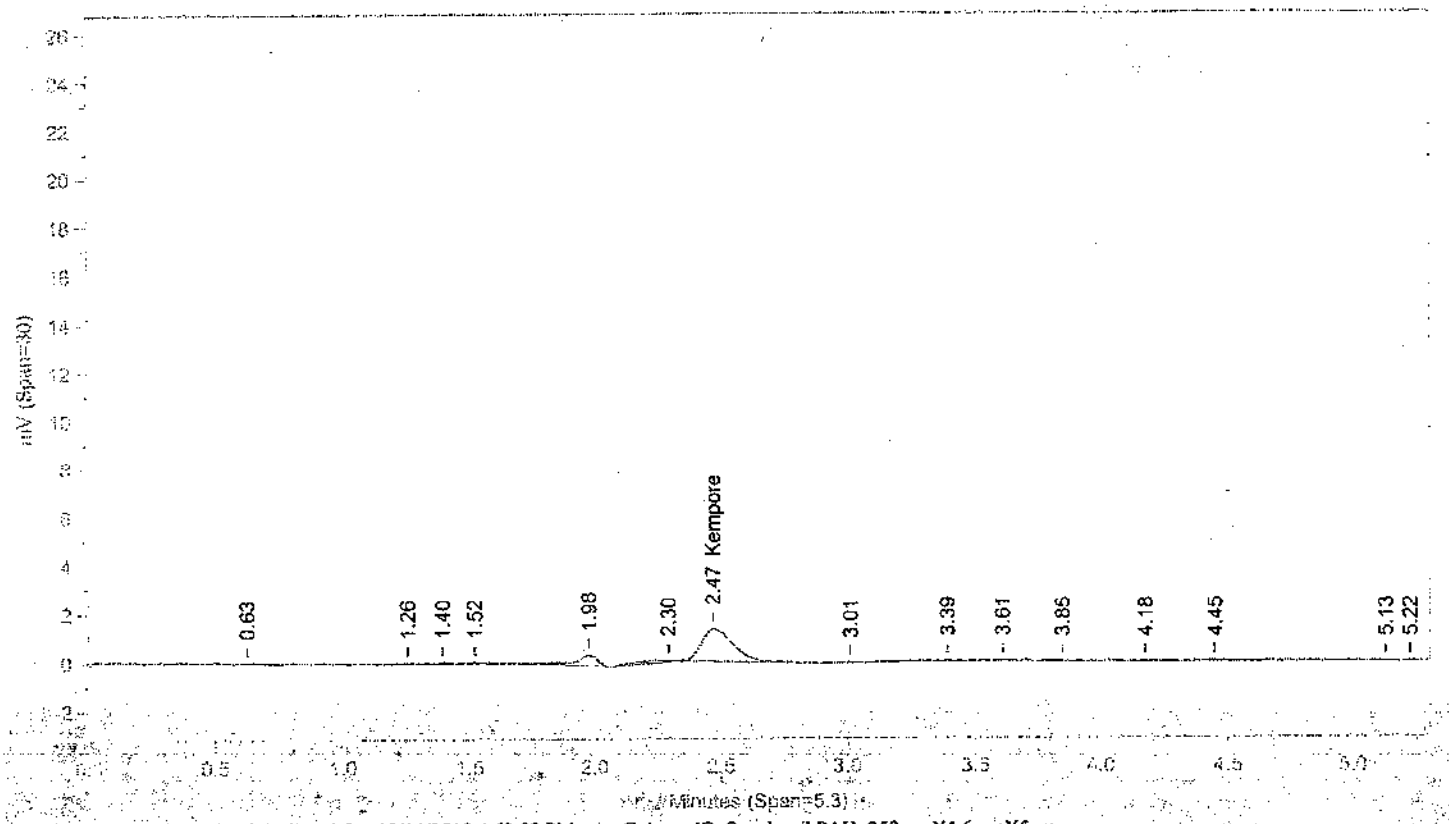
	Samplename	Code	ID	FileName	Method		Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	MISC	AA	1K11350.01R		KEMP.MET	1	1	1	0	1034899999	
2	CONDITIONER	MISC	AA	1K11350.02R		KEMP.MET	1	1	1	0	1034899999	
3	CONDITIONER	MISC	AA	1K11350.03R		KEMP.MET	1	1	1	0	1034899999	
4	KEMP11024C	ICAL	AA	1K11350.04R		KEMP.MET	1	1	1	2	1034899999	
5	KEMP21024C	ICAL	AA	1K11350.05R		KEMP.MET	1	1	1	3	1034899999	
6	KEMP31024C	ICAL	AA	1K11350.06R		KEMP.MET	1	1	1	4	1034899999	
7	KEMP41024C	ICAL	AA	1K11350.07R		KEMP.MET	1	1	1	5	1034899999	
8	KEMP51024C	ICAL	AA	1K11350.08R		KEMP.MET	1	1	1	6	1034899999	
9	MDKRX1024C	ICAL	AA	1K11350.09R		KEMP.MET	1	1	1	1	1034899999	
10	6162690R	T	AA	1K11350.10R		KEMP.MET	10	10	1	0	103490027A	02726
11	6162691R	T	AA	1K11350.11R		KEMP.MET	10	10	1	0	103490027A	02726
12	6162692R	T	AA	1K11350.12R		KEMP.MET	10	10	1	0	103490027A	02726
13	6162693R	T	AA	1K11350.13R		KEMP.MET	10	10	1	0	103490027A	02726
14	6162694R	T	AA	1K11350.14R		KEMP.MET	10	10	1	0	103490027A	02726
15	6165071	T	AA	1K11350.15R		KEMP.MET	10	10	1	0	103490027A	02726
16	6165072	T	AA	1K11350.16R		KEMP.MET	10	10	1	0	103490027A	02726
17	6165073	T	AA	1K11350.17R		KEMP.MET	10	10	1	0	103490027A	02726
18	6165074	T	AA	1K11350.18R		KEMP.MET	10	10	1	0	103490027A	02726
19	KEMP31024C	CCAL	EB	1K11350.19R		KEMP.MET	1	1	1	0	1034899999	

Set-up by: _____ Date: 12/16/10

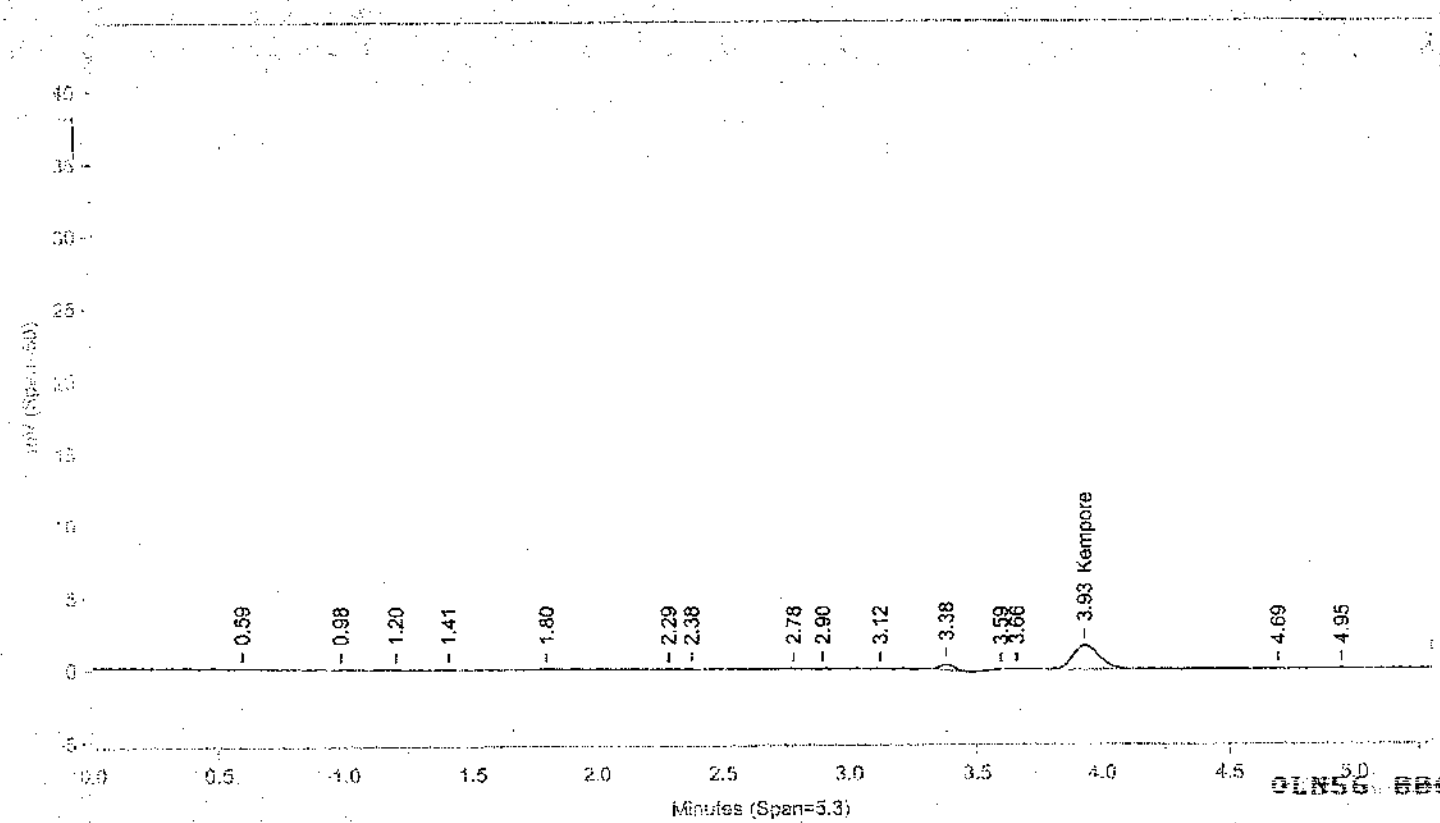
12/16/2010

OLN56 8865

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1K11350.04R



Instrument ID: CP09--K3593A Injected On: 12/16/2010 4:53:03 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/16/2010 4:53:03 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

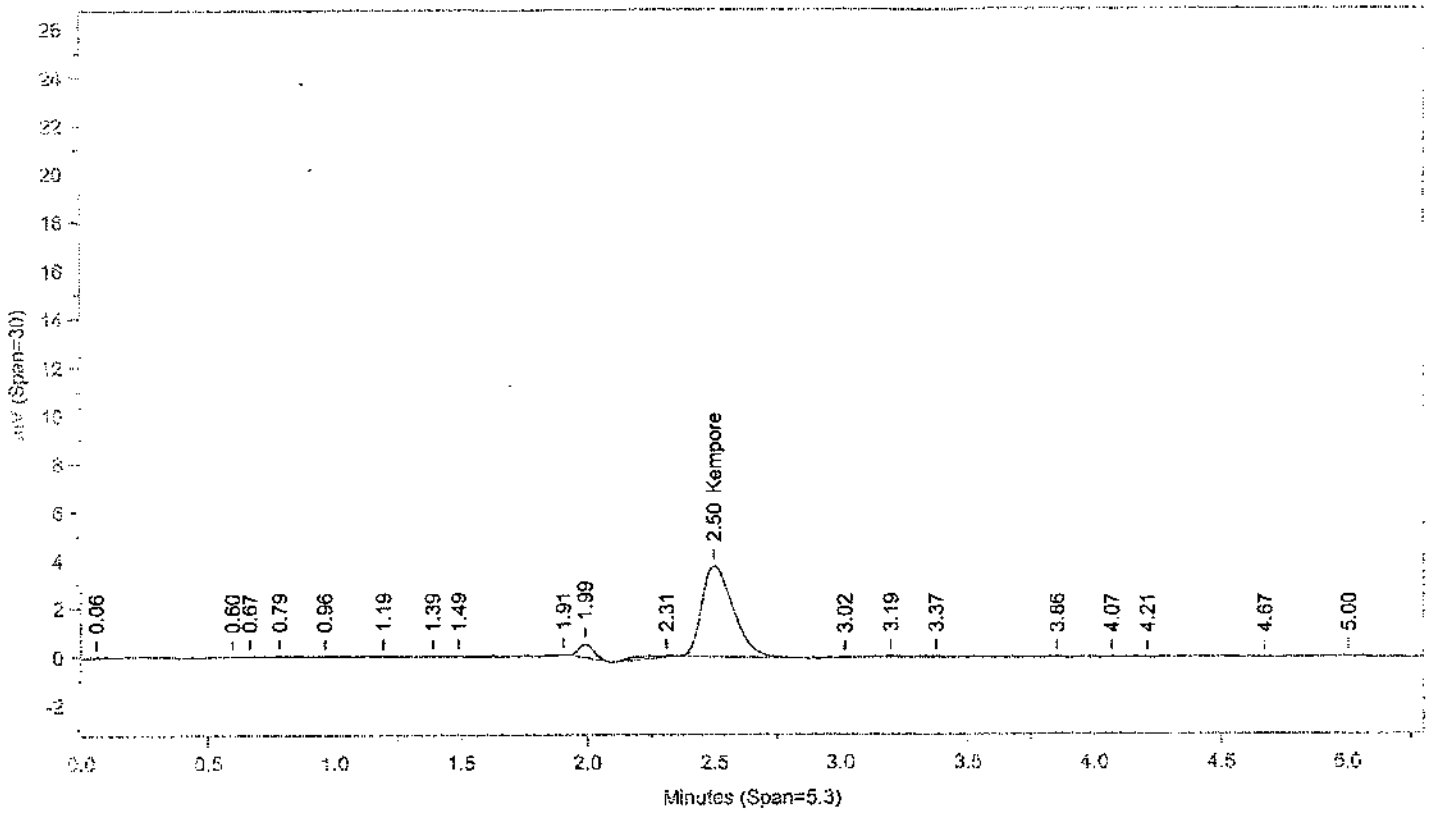
Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

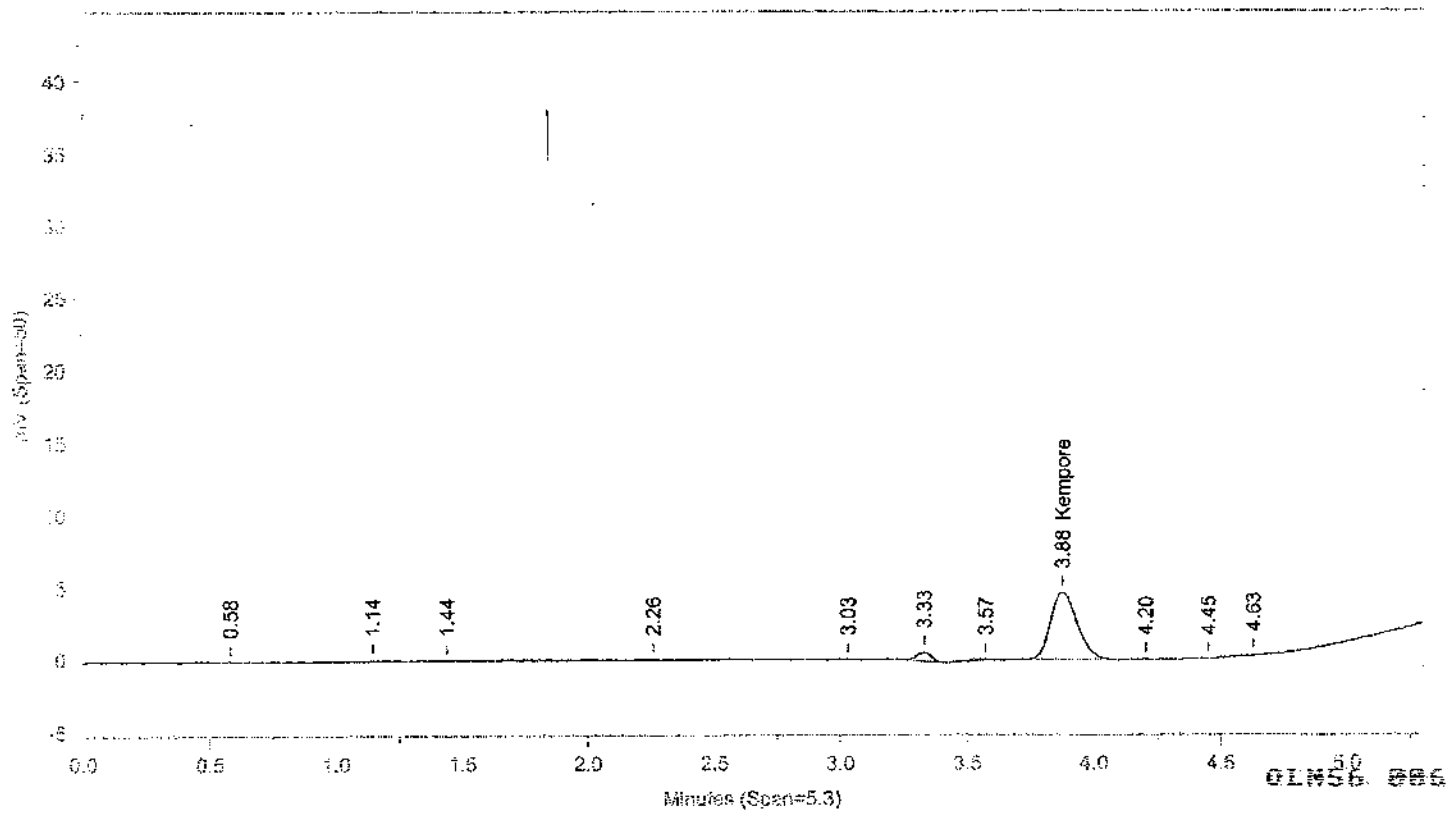
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.472	1344	771.857	Kempore	3.928	1659	1431.898	Kempore

Files:
Area File: C:\CPWIN\DATA1\1K11350.04A
Area File: C:\CPWIN\DATA1\1K11350B.04A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\1K11350.CAL
Calibration File B: C:\CPWIN\DATA1\1K11350B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/16/2010 4:58:28 PM
File Reported On: 12/16/2010 at 4:58:40 PM

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1K11350.05R



Instrument ID: CP09--K3593A Injected On: 12/16/2010 4:58:57 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/16/2010 4:58:57 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

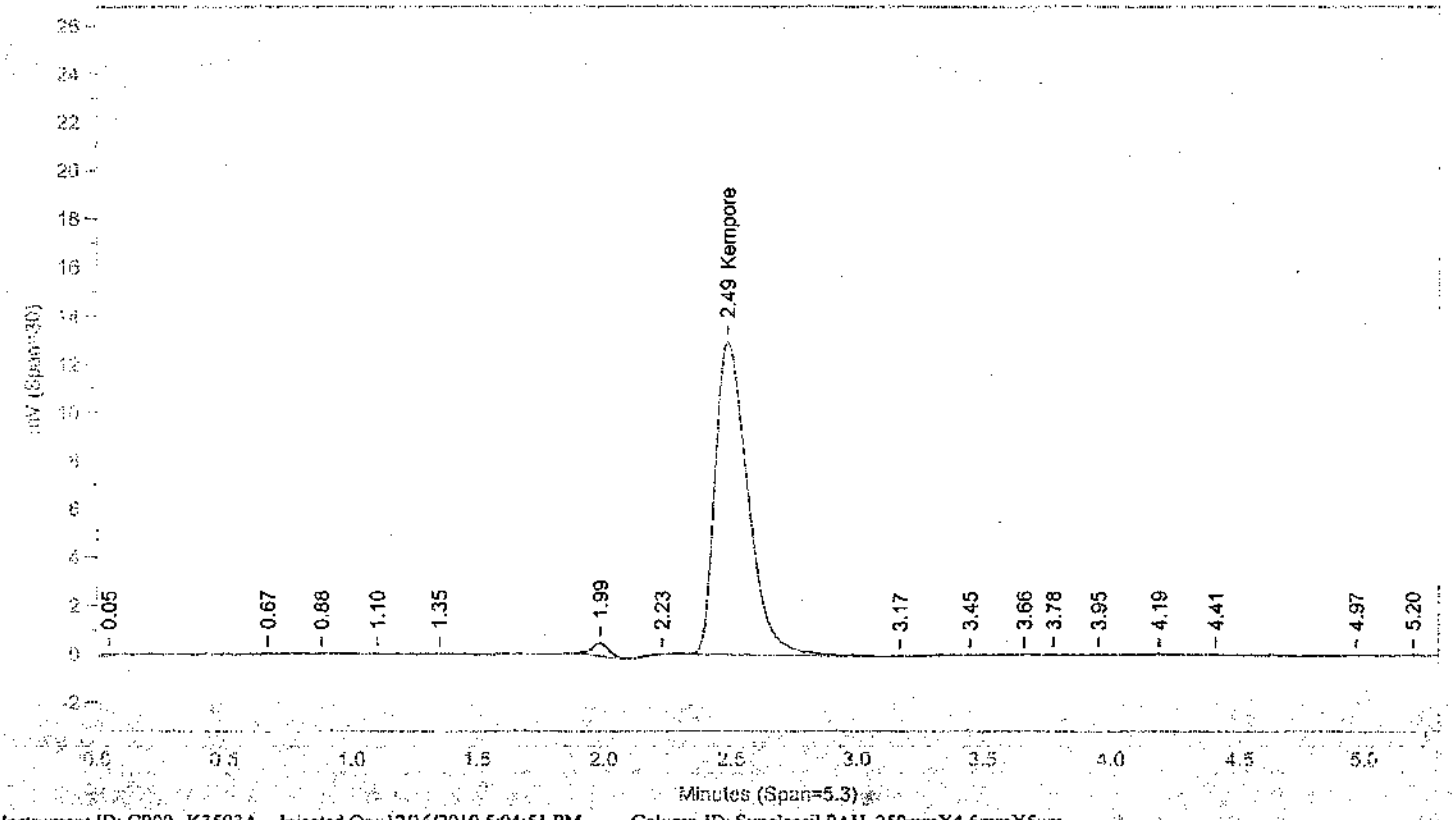
Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

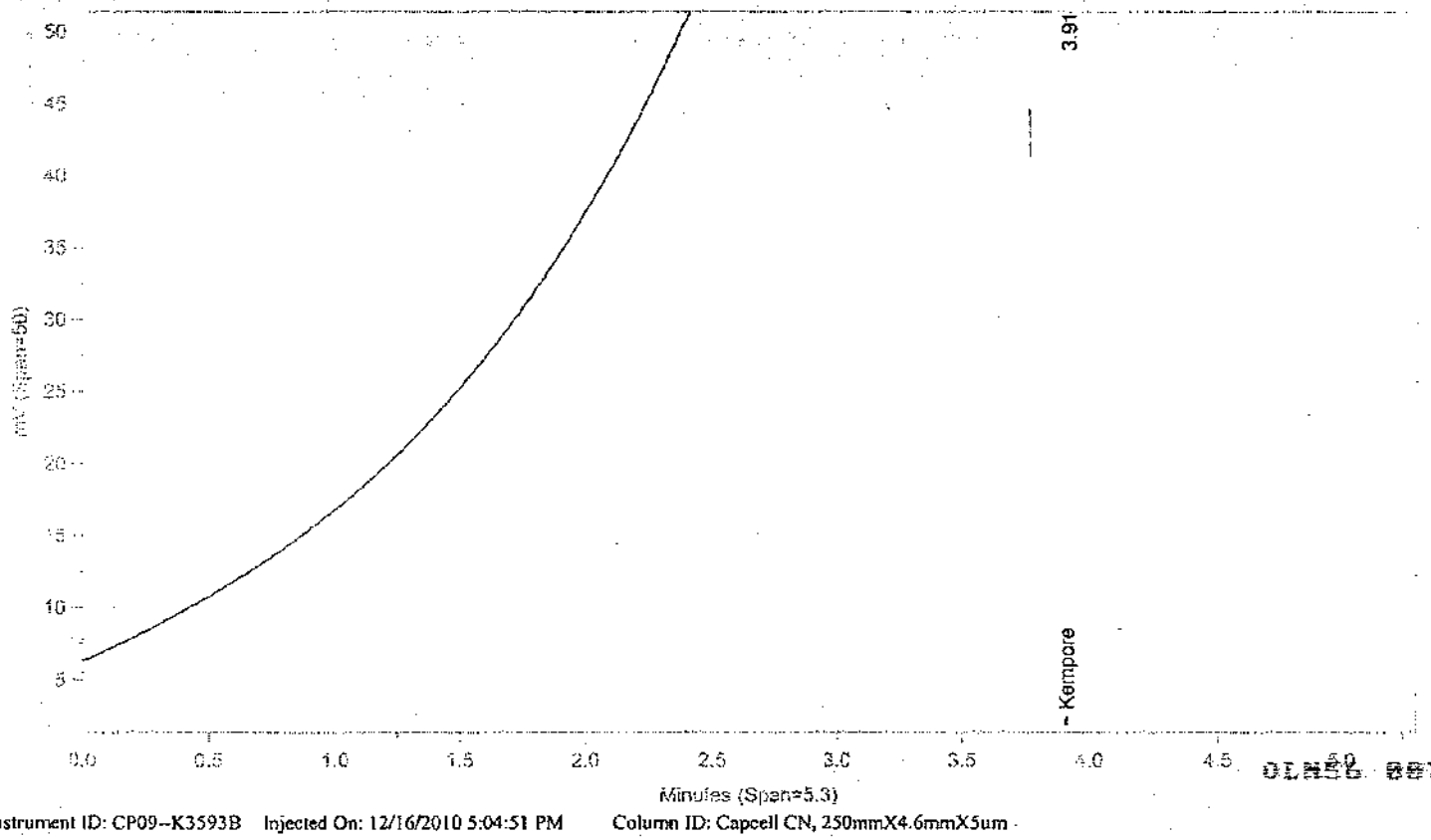
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.499	3764	2272.089	Kempore	3.878	4681	3025.282	Kempore

Files:
Area File: C:\CPWIN\DATA1\IK11350.05A
Area File: C:\CPWIN\DATA1\IK11350B.05A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\IK11350.CAL
Calibration File B: C:\CPWIN\DATA1\IK11350B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/16/2010 5:04:22 PM
File Reported On: 12/16/2010 at 5:04:34 PM

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\IK11350.06R



Instrument ID: CP09--K3593A Injected On: 12/16/2010 5:04:51 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/16/2010 5:04:51 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

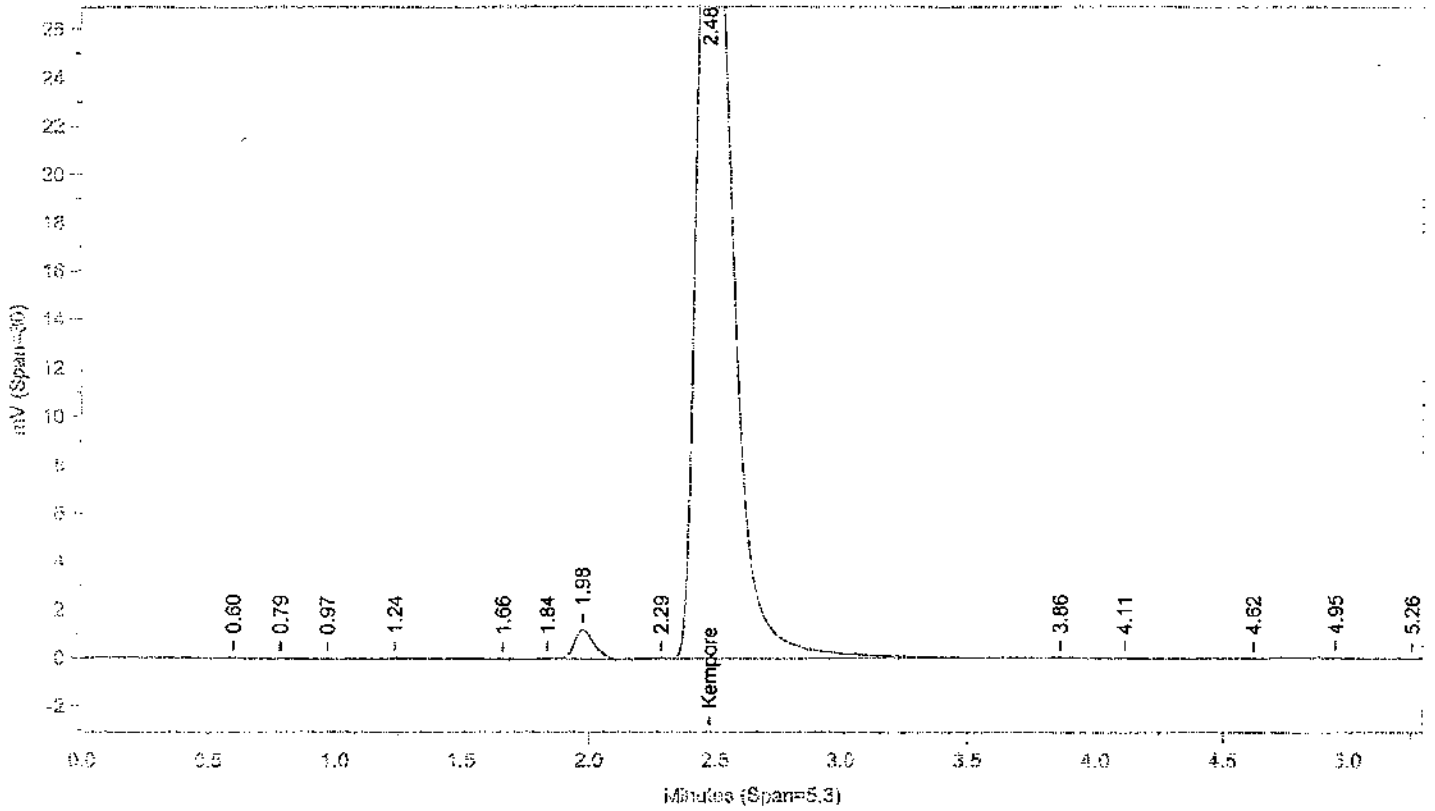
Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

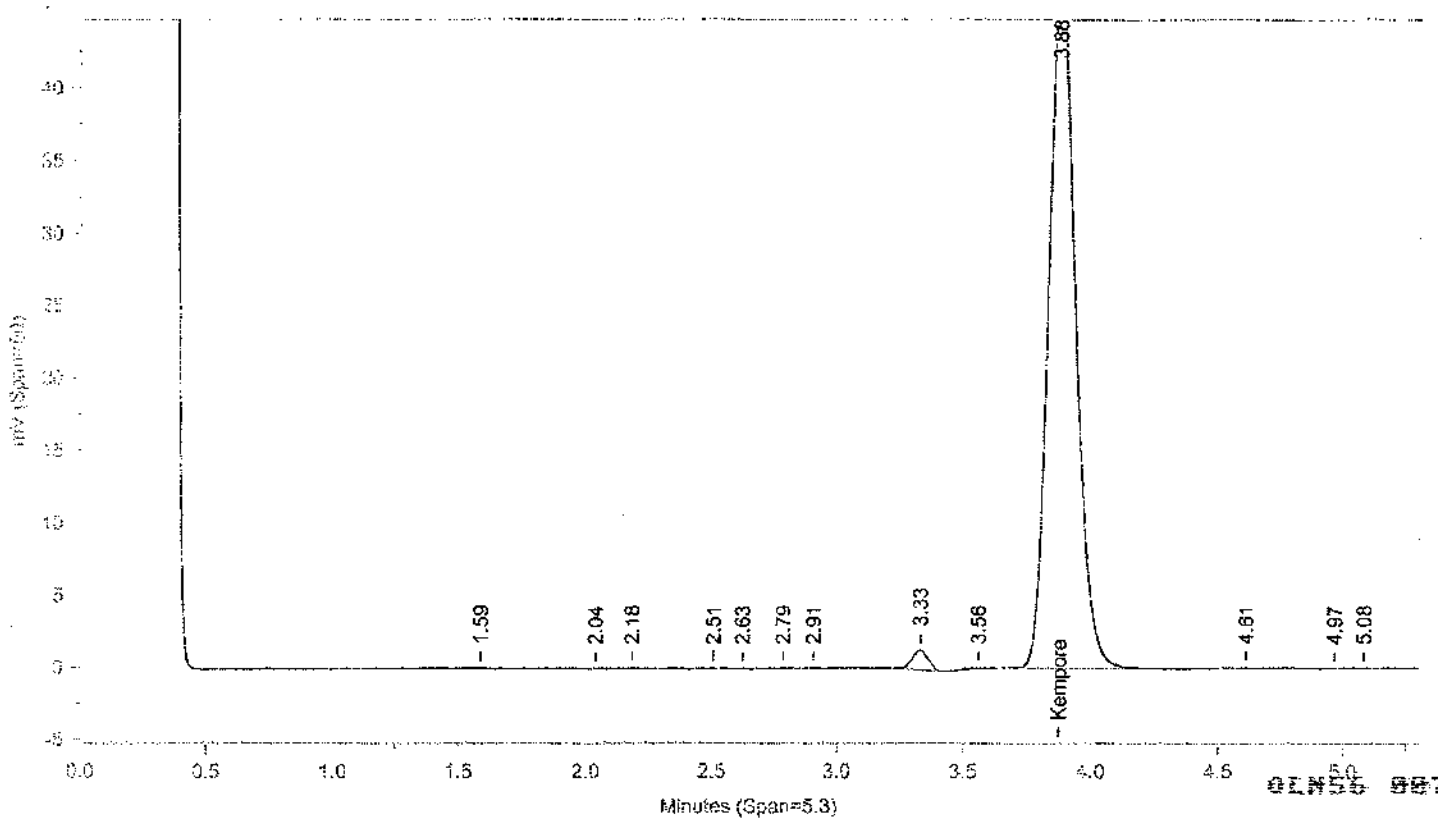
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.486	12966	7979.729	Kempore	3.91	13409	6919.065	Kempore

Files:
Area File: C:\CPWIN\DATA1\IK11350.06A
Area File: C:\CPWIN\DATA1\IK11350B.06A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\IK11350.CAL
Calibration File B: C:\CPWIN\DATA1\IK11350B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/16/2010 5:10:16 PM
File Reported On: 12/16/2010 at 5:10:29 PM

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1K11350.07R



Instrument ID: CP09--K3593A Injected On: 12/16/2010 5:10:45 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/16/2010 5:10:45 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

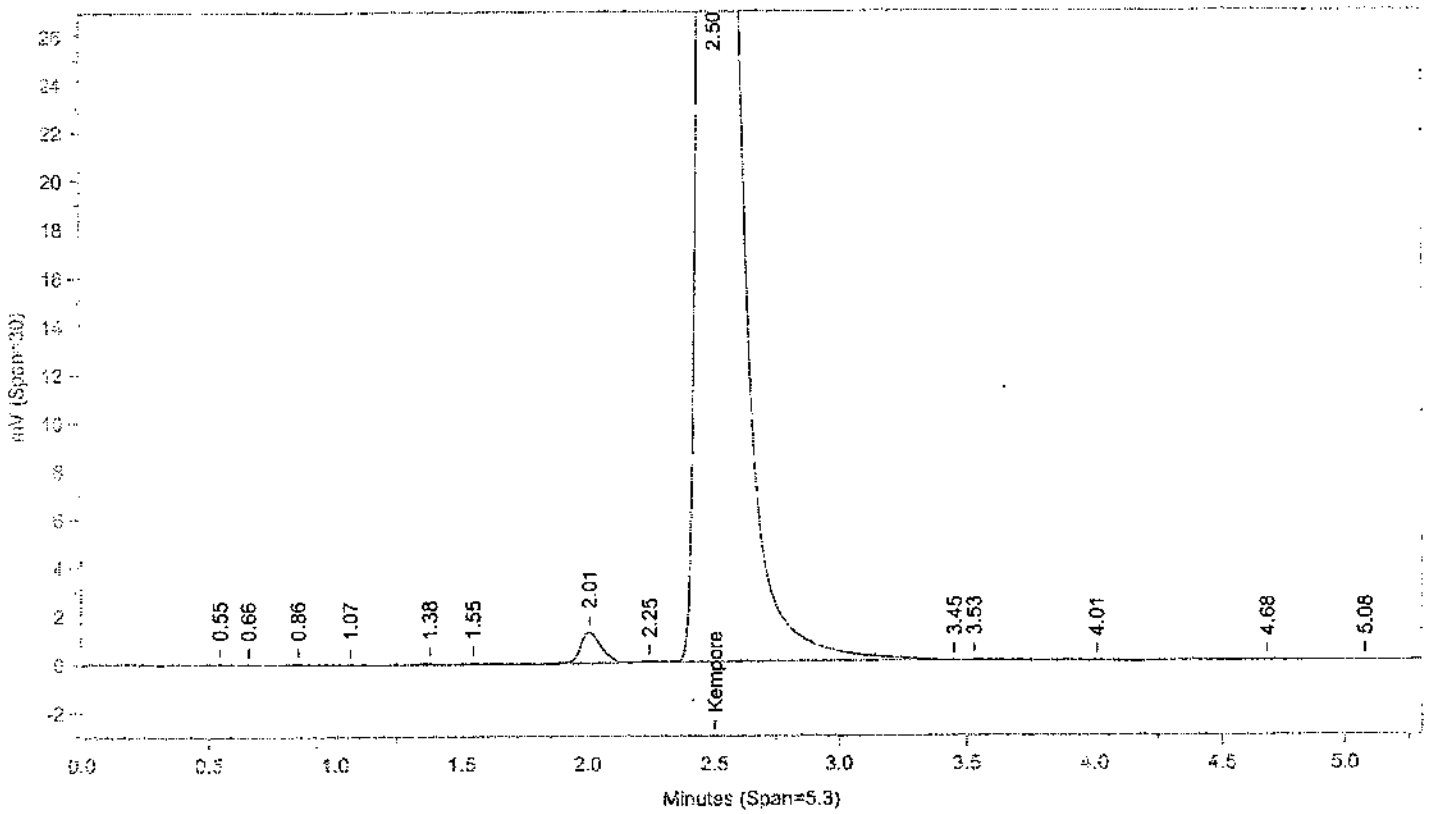
Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

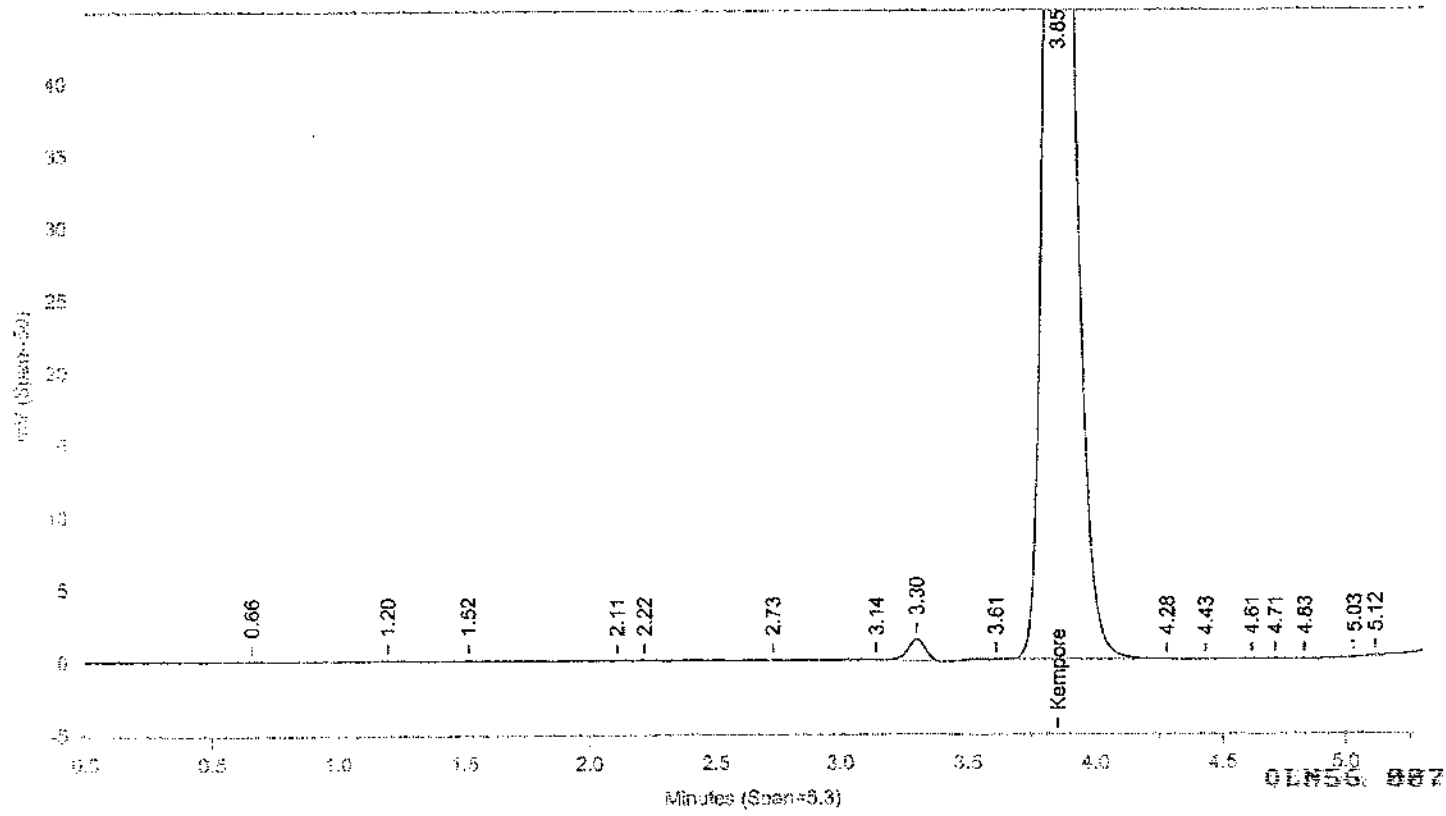
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.477	39133	25168.52	Kempore	3.875	47211	24659.2	Kempore

Files:
Area File: C:\CPWIN\DATA1\IK11350.07A
Area File: C:\CPWIN\DATA1\IK11350B.07A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\IK11350.CAL
Calibration File B: C:\CPWIN\DATA1\IK11350B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/16/2010 5:16:10 PM
File Reported On: 12/16/2010 at 5:16:21 PM

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1K11350.08R



Instrument ID: CP09--K3593A Injected On: 12/16/2010 5:16:39 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/16/2010 5:16:39 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

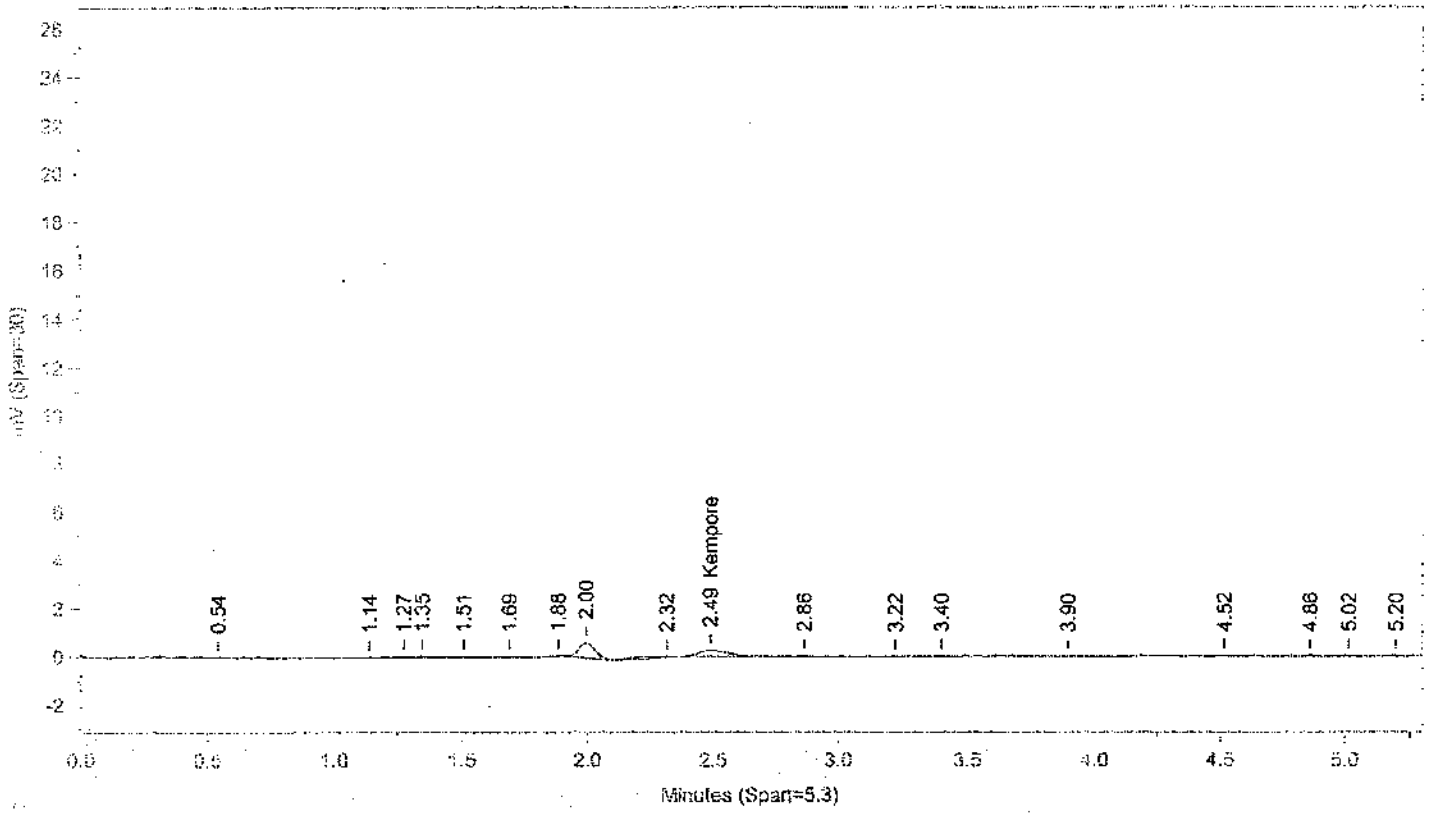
Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

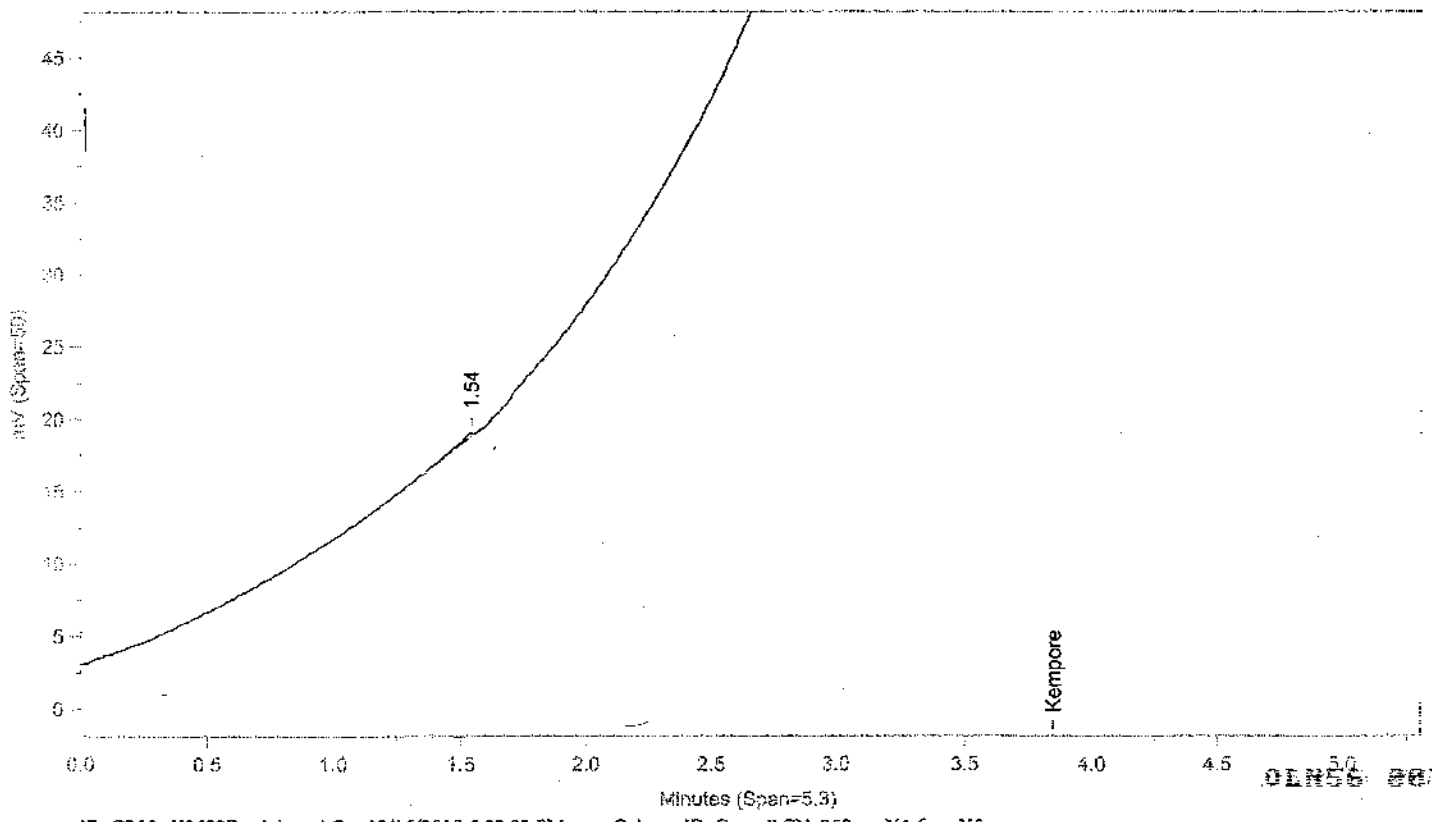
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.505	73984	48798.22	Kempore	3.851	92054	47667.81	Kempore

Files:
Area File: C:\CPWIN\DATA1\IK11350.08A
Area File: C:\CPWIN\DATA1\IK11350B.08A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\IK11350.CAL
Calibration File B: C:\CPWIN\DATA1\IK11350B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/16/2010 5:22:04 PM
File Reported On: 12/16/2010 at 5:22:16 PM

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA\1K11350.09R



Instrument ID: CP09--K3593A Injected On: 12/16/2010 5:22:33 PM Column ID: Supelcosil PAH, 250mmX4.6mmXSum



Instrument ID: CP09--K3593B Injected On: 12/16/2010 5:22:33 PM Column ID: Capcell CN, 250mmX4.6mmXSum

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

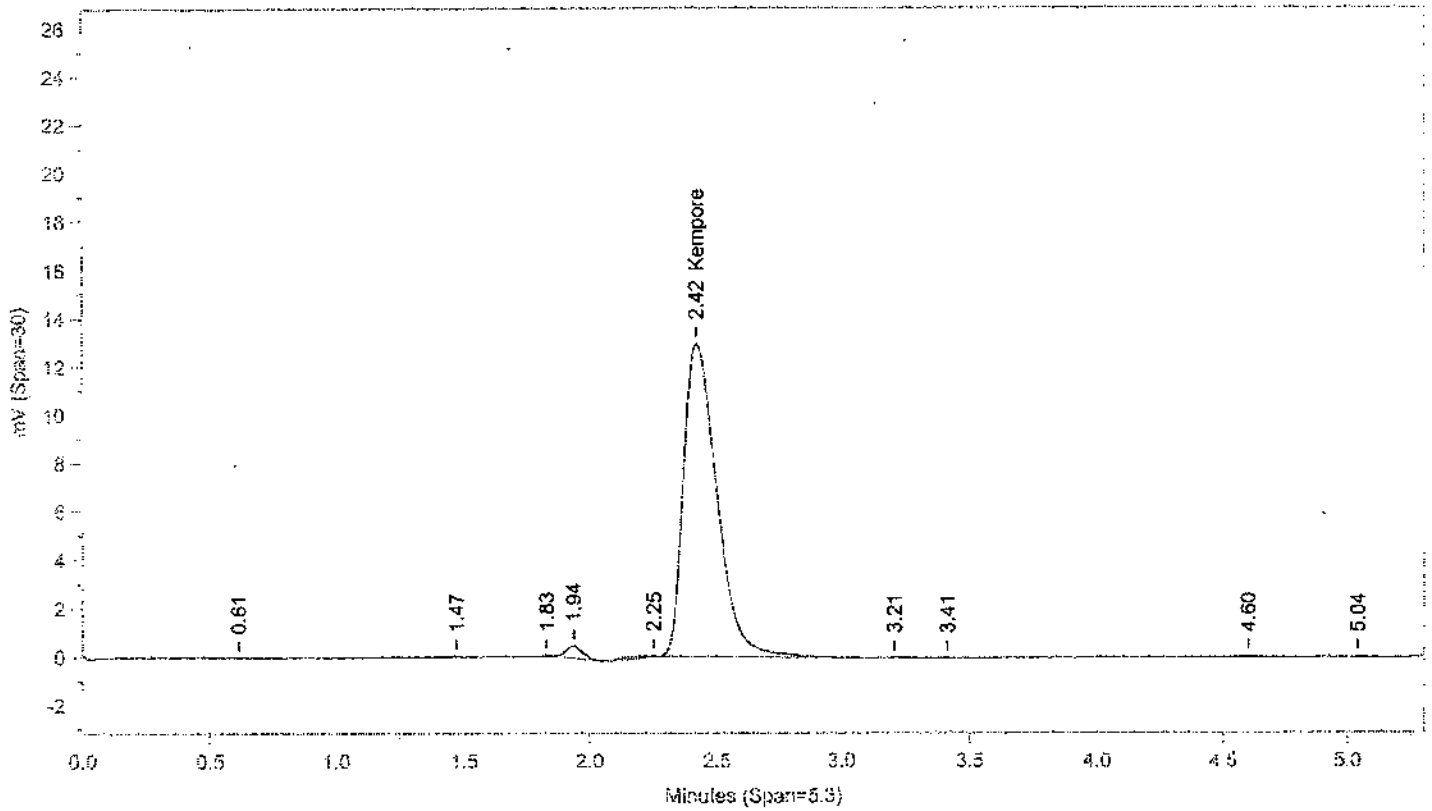
Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

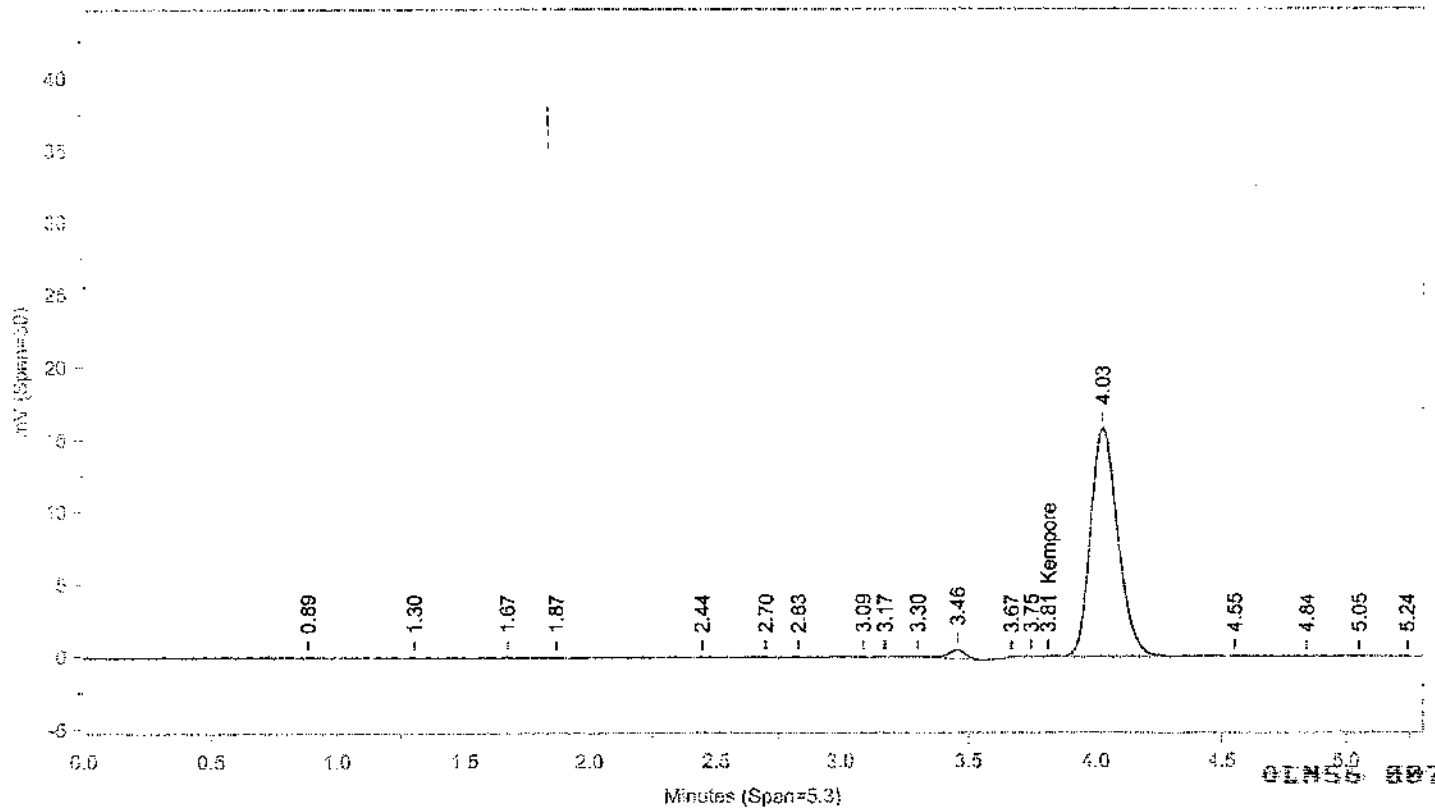
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.491	261	176.55	Kempore			0	Kempore

Files:
Area File: C:\CPWIN\DATA1\IK11350.09A
Area File: C:\CPWIN\DATA1\IK11350B.09A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\IK11350.CAL
Calibration File B: C:\CPWIN\DATA1\IK11350B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/16/2010 5:27:58 PM
File Reported On: 12/16/2010 at 5:28:10 PM

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA\WK11350.19R



Instrument ID: CP09--K3593A Injected On: 12/16/2010 6:45:00 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/16/2010 6:45:00 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.419	12951	8963.059	Kempore	3.813	44	572.797	Kempore

Files:
Area File: C:\CPWIN\DATA1\1K11350.19A
Area File: C:\CPWIN\DATA1\1K11350B.19A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\1K11350.CAL
Calibration File B: C:\CPWIN\DATA1\1K11350B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/16/2010 6:50:26 PM
File Reported On: 12/16/2010 at 6:50:37 PM

Raw QC Data

1D

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO. PBLK27349

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103490027A

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: BLANKA

Sample wt/vol: 10 (g/ml) ml Lab File ID: 1K11349.10R

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) Direct Injection Date Extracted: 12/15/2010

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/15/2010

Injection Volume: 30 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
123-77-3	Kempore	230	U

Lancaster Laboratories Single Component Data Summary

Sample Name: BLANKA 12/15/10 PBLK27349 Sample ID: AA **Batchnumber: 103490027A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: State:
Analyses: 02726 02727

Analysis Report (A)

Injected on	: DEC 15, 2010 21:35:13
Instrument	: CP09--K3593A
Result file	: 1K11349.10R
Calibration file	: 1K11349.CAL
Method file	: KEMP.MET

Analysis Report (B)

Injected on	: DEC 15, 2010 21:35:13
Instrument	: CP09--K3593B
Result file	: 1K11349B.10R
Calibration file	: 1K11349B.CAL
Method file	: KEMPB.MET

Peak name	Min	R.T.	Max	Height	Amount
Kempore	2.39	2.49	2.59	46	26.256958

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Kempore			<1000	<230			

Units: ug/l

Reviewed by: [signature] Date: 12/15/10
Verified by: [signature] Date:

DEC 2 1 2010

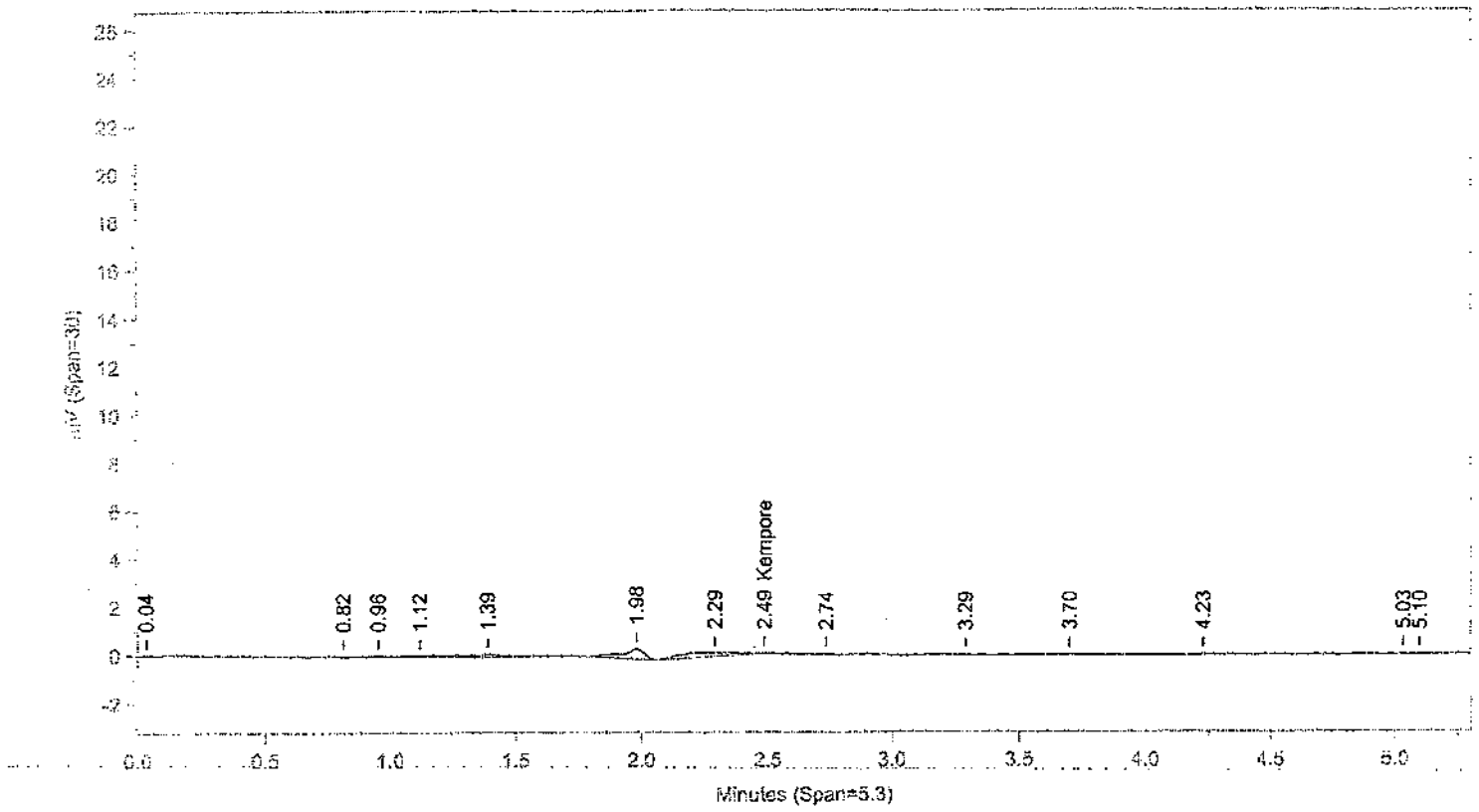
Sarah Snyder
Senior Specialist

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found 8852

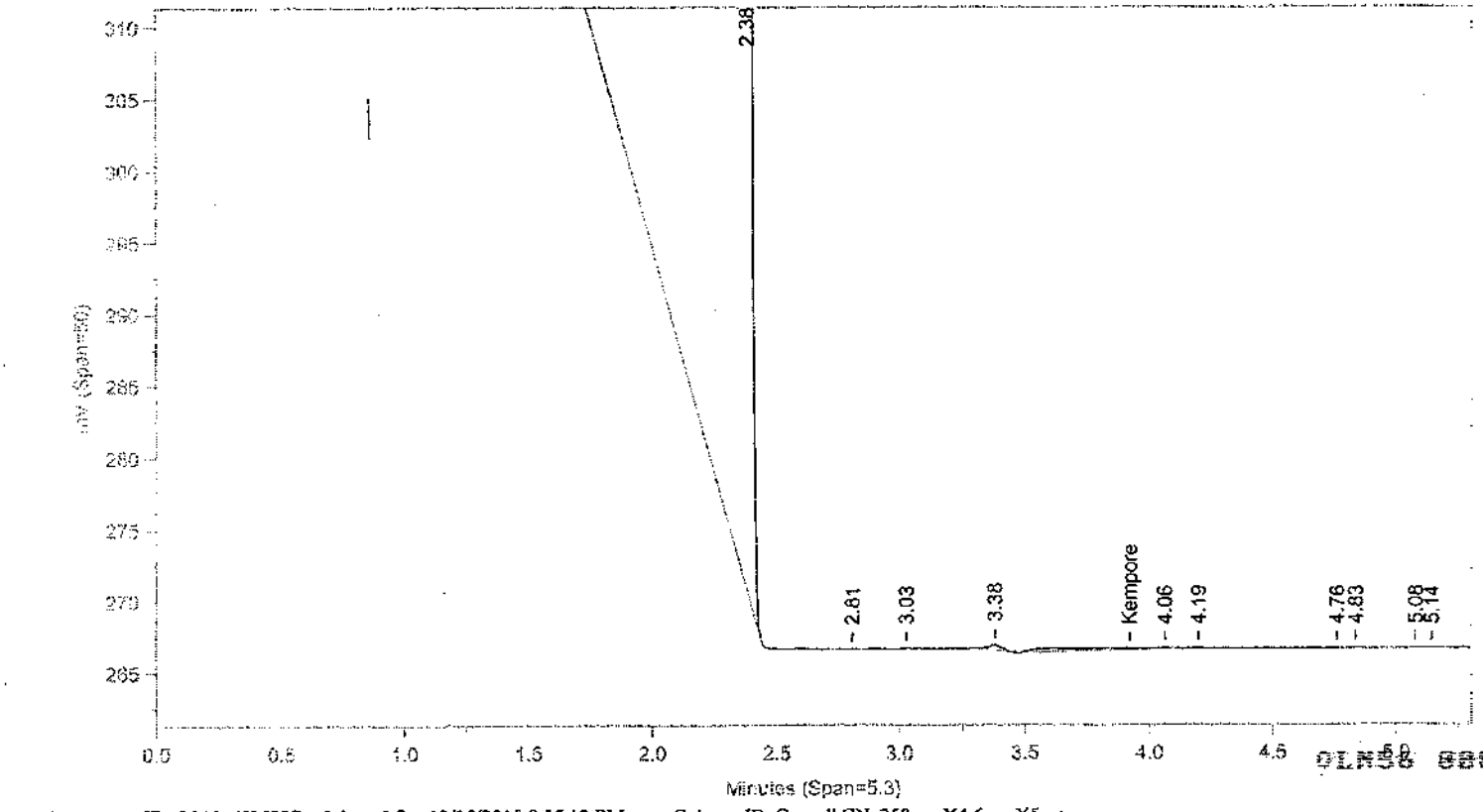
* Recovery outside QC Limits

Printed on: 12/16/10 16:17:18

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\IK11349.10R



Instrument ID: CP09--K3593A Injected On: 12/15/2010 9:35:12 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/15/2010 9:35:12 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.488	46	26.257	Kempore			0	Kempore

Files:
Area File: C:\CPWIN\DATA1\1K11349.10A
Area File: C:\CPWIN\DATA1\1K11349B.10A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\1K11349.CAL
Calibration File B: C:\CPWIN\DATA1\1K11349B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/15/2010 9:51:48 PM
File Reported On: 12/15/2010 at 9:51:58 PM

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO. LCS27349

Lab Name: Lancaster Laboratories **Contract:** **Batchnumber:** 103490027A

Lab Code: **Case No.:** **SAS No.:** **SDG No.:**

Matrix: (soil/water) WATER **Lab Sample ID:** LCSA

Sample wt/vol: 10 (g/ml) ml **Lab File ID:** 1K11349.11R

% Moisture: **Decanted: (Y/N)** **Date Received:**

Extraction: (SepF/Cont/Sonc) Direct Injection **Date Extracted:** 12/15/2010

Concentrated Extract Volume: 10000 (uL) **Date Analyzed:** 12/15/2010

Injection Volume: 30 (uL) **Dilution Factor:** 1

GPC Cleanup: (Y/N) N **pH:** **Sulfur Cleanup: (Y/N)** N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
123-77-3	Kempore	11000	

01R56 0005

Lancaster Laboratories Single Component Data Summary

Sample Name: **LCSA** 12/15/10 LCS27349 Sample ID: AA **Batchnumber: 103490027A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: State:
Analyses: 02726 02727

Analysis Report (A)

Injected on	: DEC 15, 2010 21:41:06
Instrument	: CP09--K3593A
Result file	: 1K11349.11R
Calibration file	: 1K11349.CAL
Method file	: KEMP.MET
%SSR(Kempore)	:

Peak name	Min	R.T.	Max	Height	Amount
Kempore	2.39	2.45	2.59	18391	10565.426758

Analysis Report (B)

Injected on	: DEC 15, 2010 21:41:06
Instrument	: CP09--K3593B
Result file	: 1K11349B.11R
Calibration file	: 1K11349B.CAL
Method file	: KEMPB.MET
%SSR(Kempore)	:

Peak name	Min	R.T.	Max	Height	Amount
Kempore	3.82	3.95	4.02	21369	11396.033203

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Kempore	~~B~~ A	~~11396.033203~~ 10565.426758	1000	230		7.56	

Units: ug/l

Reviewed by: 1566 Date: 12/19/10
Verified by: Date:

DEC 2 1 2010

Sarah Snyder
Senior Specialist

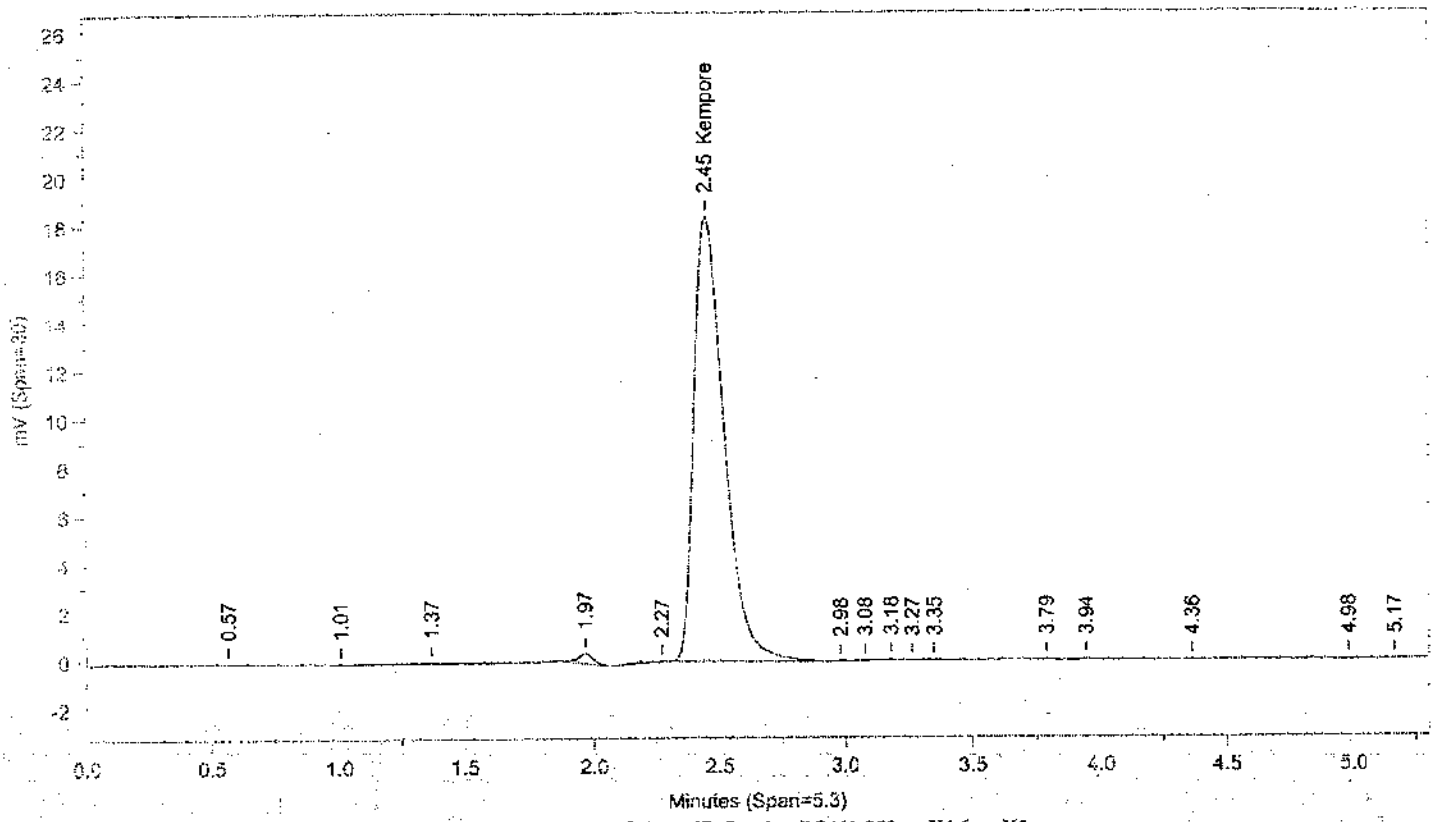
%Difference = High - Low Amount divided by the Average times 100

Higher Amount Found

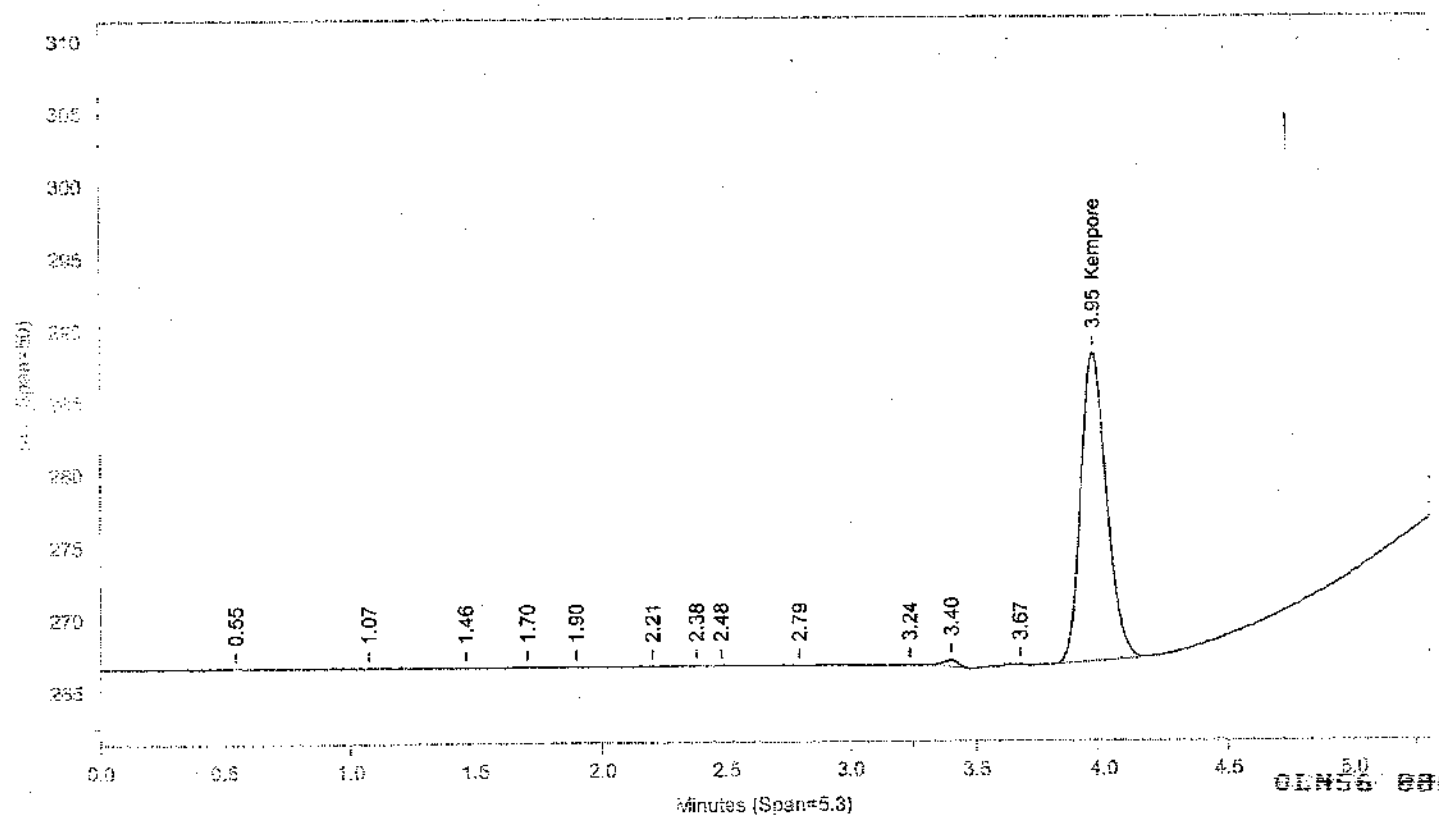
* Recovery outside QC Limits

Printed on: 12/16/10 16:17:44

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1K11349.11R



Instrument ID: CP09--K3593A Injected On: 12/15/2010 9:41:05 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/15/2010 9:41:05 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.451	18391	10565.43	Kempore	3.954	21369	11396.03	Kempore

Files:
Area File: C:\CPWIN\DATA1\1K11349.11A
Area File: C:\CPWIN\DATA1\1K11349B.11A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\1K11349.CAL
Calibration File B: C:\CPWIN\DATA1\1K11349B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/15/2010 9:52:08 PM
File Reported On: 12/15/2010 at 9:52:18 PM

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO. LCSD27349

Lab Name: Lancaster Laboratories **Contract:** **Batchnumber:** 103490027A

Lab Code: **Case No.:** **SAS No.:** **SDG No.:**

Matrix: (soil/water) WATER **Lab Sample ID:** LCSDA

Sample wt/vol: 10 (g/ml) ml **Lab File ID:** 1K11349.12R

% Moisture: **Decanted: (Y/N)** **Date Received:**

Extraction: (SepF/Cont/Sonc) Direct Injection **Date Extracted:** 12/15/2010

Concentrated Extract Volume: 10000 (uL) **Date Analyzed:** 12/15/2010

Injection Volume: 30 (uL) **Dilution Factor:** 1

GPC Cleanup: (Y/N) N **pH:** **Sulfur Cleanup: (Y/N)** N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
123-77-3	Kempore	10000	

01N56 0009

Lancaster Laboratories-Single Component Data Summary

Sample Name: **LCSDA** 12/15/10 LCSD27349 **Sample ID:** AA **Batchnumber:** **103490027A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: State:
Analyses: 02726 02727

Analysis Report (A)

Injected on : DEC 15, 2010 21:46:59
Instrument : CP09--K3593A
Result file : 1K11349.12R
Calibration file : 1K11349.CAL
Method file : KEMP.MET
%SSR(Kempore) :

Peak name	Min	R.T.	Max	Height	Amount
Kempore	2.39	2.46	2.59	17601	10111.780273

Analysis Report (B)

Injected on : DEC 15, 2010 21:46:59
Instrument : CP09--K3593B
Result file : 1K11349B.12R
Calibration file : 1K11349B.CAL
Method file : KEMPB.MET
%SSR(Kempore) :

Peak name	Min	R.T.	Max	Height	Amount
Kempore	3.82	3.94	4.02	20228	10819.361328

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Kempore	~~B~~ A	~~10819.361328~~ 10111.780273	1000	230		6.76	

Units: ug/l

Reviewed by: 1566 Date: 12/19/10
Verified by: Date:

DEC 2 1 2010

Sarah Snyder
Senior Specialist

%Difference = High - Low Amount divided by the Average times 100

Higher Amount Found

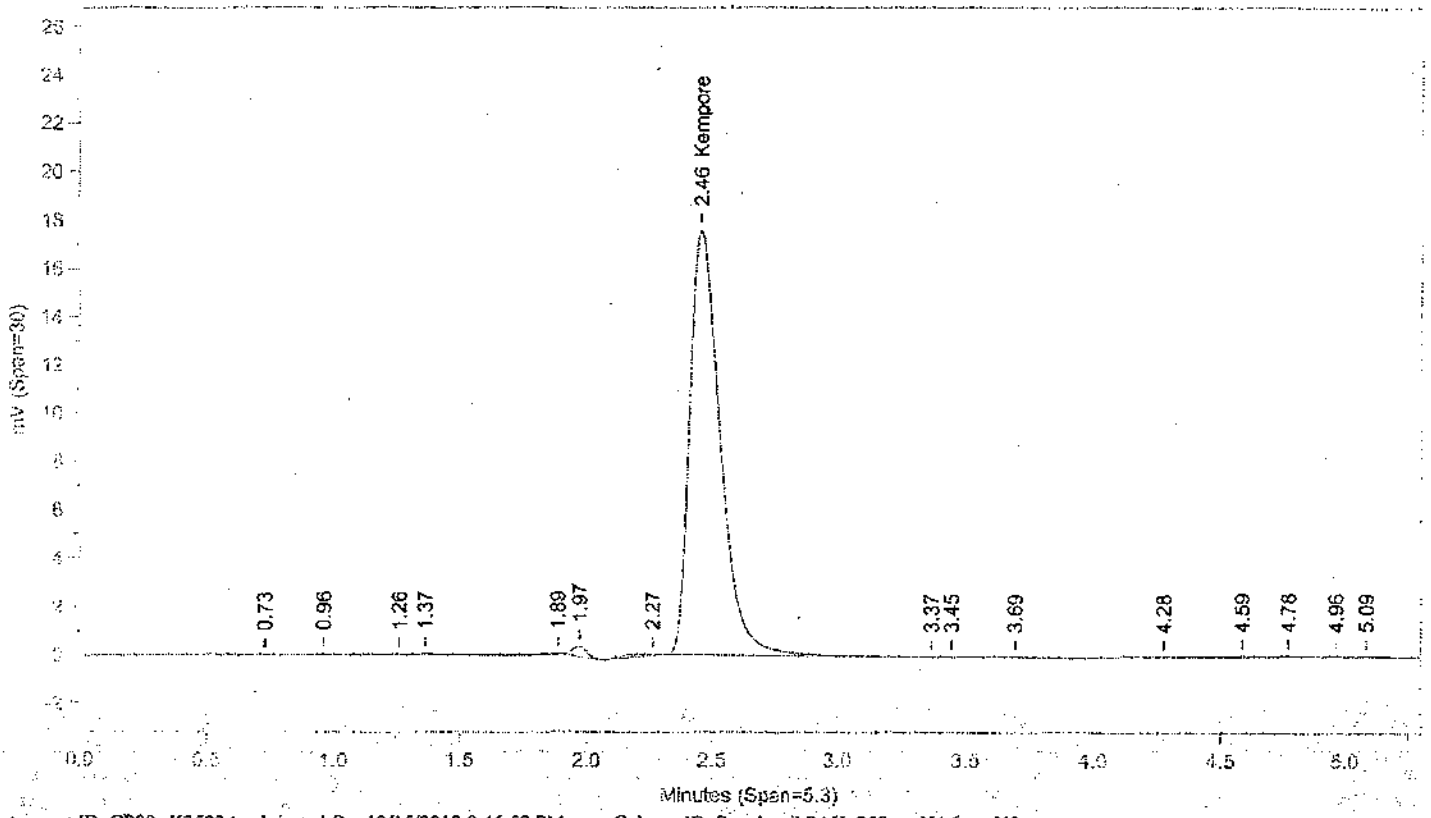
21NEC 5898

* Recovery outside QC Limits

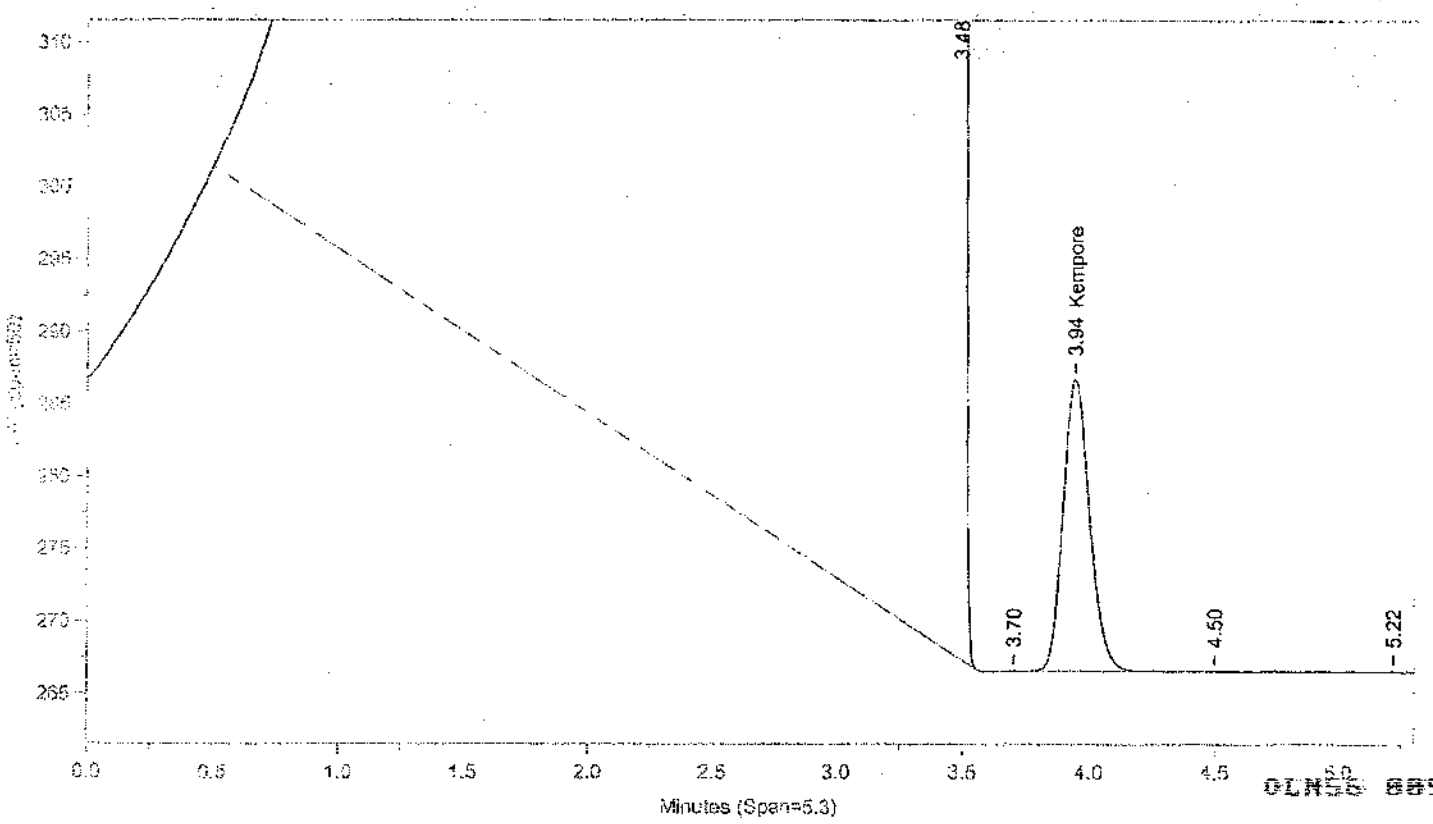
Printed on: 12/16/10 16:18:03

LANCASTER LABORATORIES

FILE NAME: C:\CPWIN\DATA\1\K11349.12R



Instrument ID: CP09--K3593A Injected On: 12/15/2010 9:46:58 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/15/2010 9:46:59 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.456	17601	10111.78	Kempore	3.94	20228	10819.36	Kempore

Files:
Area File: C:\CPWIN\DATA1\1K11349.12A
Area File: C:\CPWIN\DATA1\1K11349B.12A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\1K11349.CAL
Calibration File B: C:\CPWIN\DATA1\1K11349B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/15/2010 9:52:30 PM
File Reported On: 12/15/2010 at 9:52:39 PM

1D

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO.

ISCSWRE

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103490027A

Lab Code: Case No.: SAS No.: SDG No.: OLN54

Matrix: (soil/water) WATER Lab Sample ID: 6162684

Sample wt/vol: 10 (g/ml) ml Lab File ID: 1K11349.15R

% Moisture: Decanted: (Y/N) Date Received: 12/11/2010

Extraction: (SepF/Cont/Sonc) Direct Injection Date Extracted: 12/15/2010

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/15/2010

Injection Volume: 30 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
123-77-3	Kempore	230	U

OLN56 0693

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6162684R ISCSW Sample ID: AA **Batchnumber: 103490027A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: OLN54 State: MA
Analyses: 02726 02727

Analysis Report (A)

Injected on	: DEC 15, 2010 22:04:38
Instrument	: CP09--K3593A
Result file	: 1K11349.15R
Calibration file	: 1K11349.CAL
Method file	: KEMP.MET

Analysis Report (B)

Injected on	: DEC 15, 2010 22:04:38
Instrument	: CP09--K3593B
Result file	: 1K11349B.15R
Calibration file	: 1K11349B.CAL
Method file	: KEMPB.MET

Peak name	Min	R.T.	Max	Height	Amount
Kempore	2.39	2.52	2.59	67	38.366756

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Kempore			<1000	<230			

Units: ug/l

Reviewed by: [signature] Date: 12/19/10
Verified by: [signature] Date:

DEC 2 1 2010

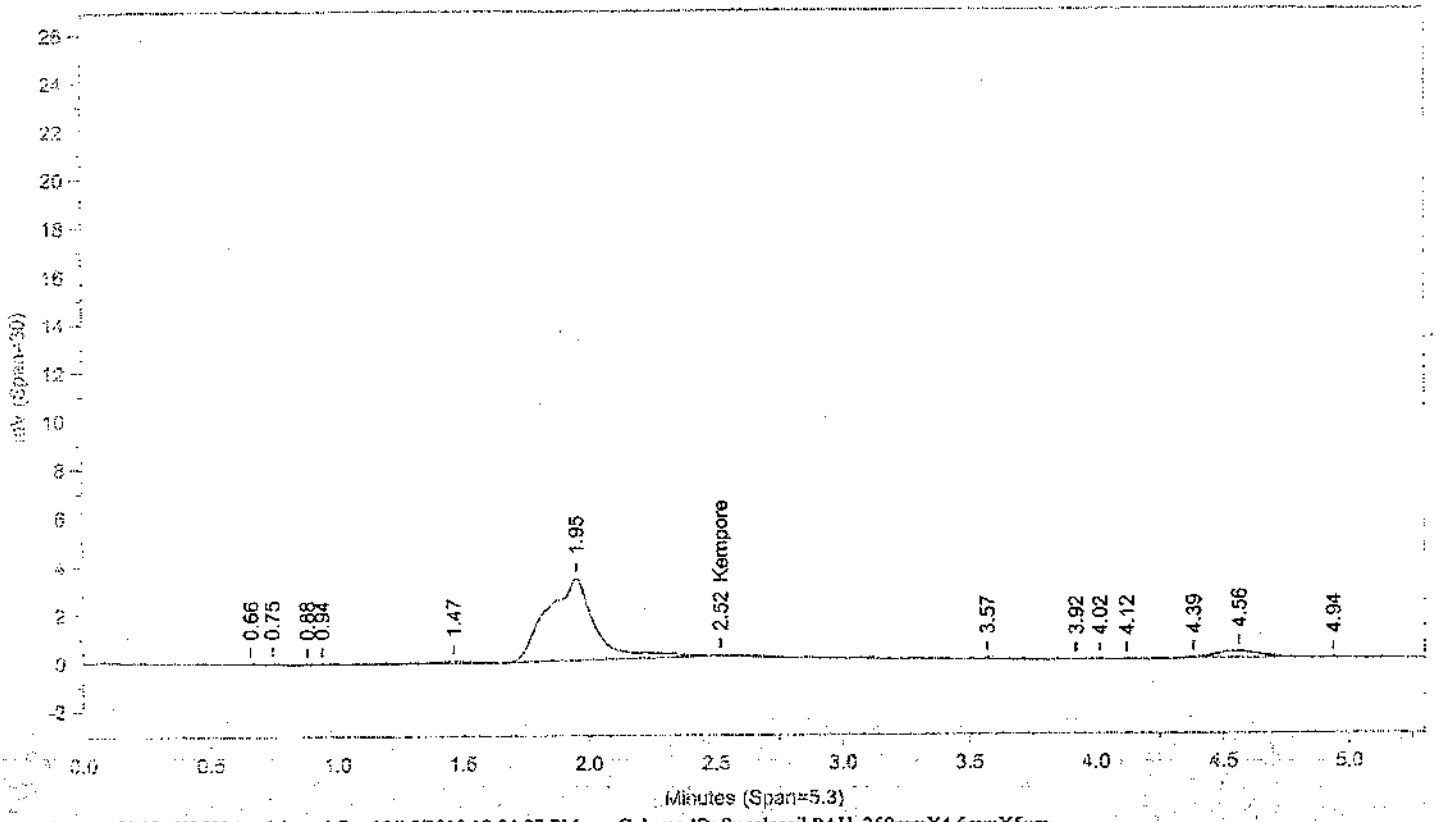
Sarah Snyder
Senior Specialist

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found

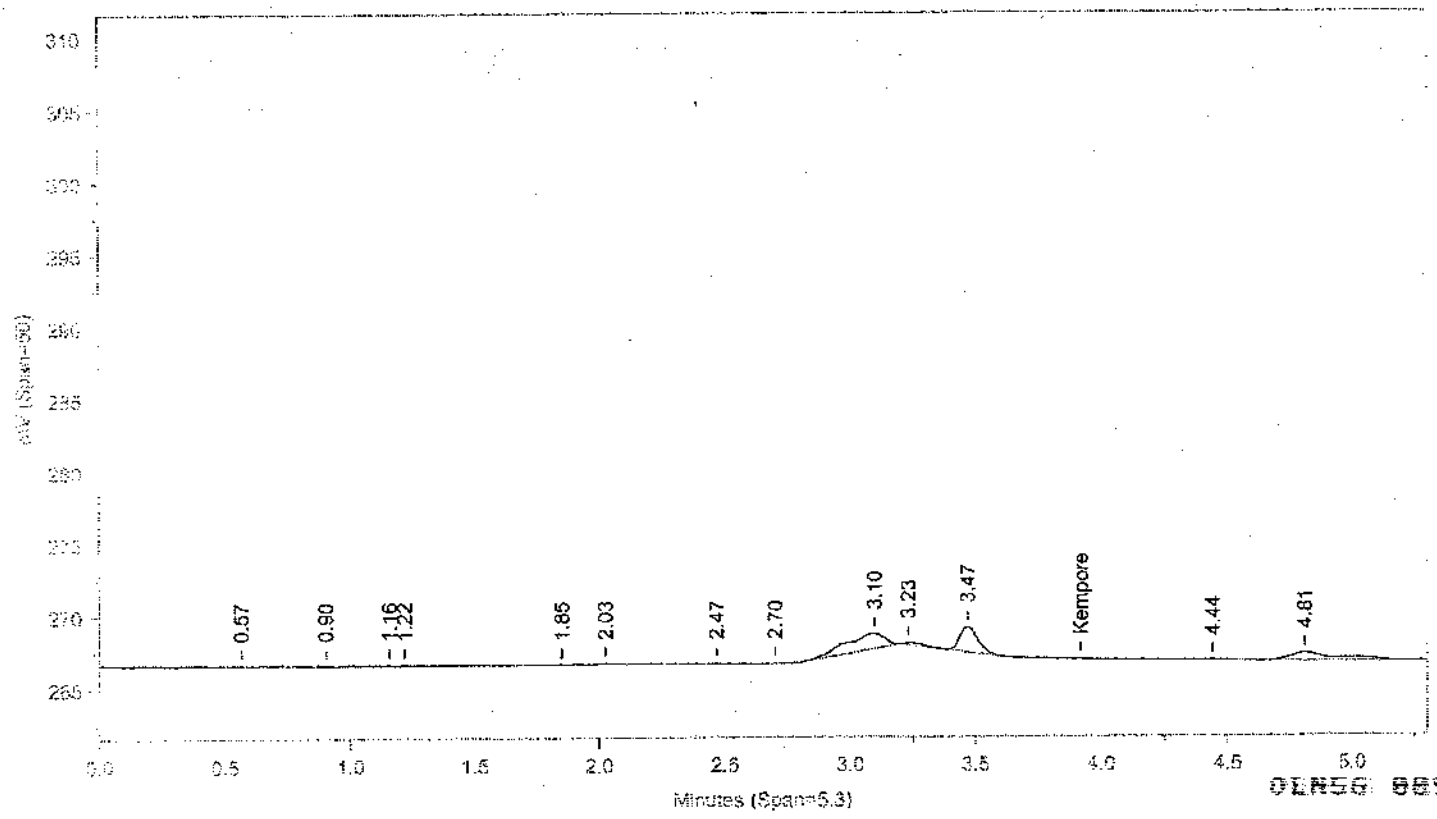
* Recovery outside QC Limits

Printed on: 12/16/10 16:18:59

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1K11349.15R



Instrument ID: CP09--K3593A Injected On: 12/15/2010 10:04:37 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/15/2010 10:04:37 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.521	67	38.367	Kempore			0	Kempore

Files:
Area File: C:\CPWIN\DATA1\1K11349.15A
Area File: C:\CPWIN\DATA1\1K11349B.15A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\1K11349.CAL
Calibration File B: C:\CPWIN\DATA1\1K11349B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/15/2010 10:10:02 PM
File Reported On: 12/15/2010 at 10:10:11 PM

1D

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO. ISCSWRE MS

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103490027A

Lab Code: Case No.: SAS No.: SDG No.: OLN54

DMSK 12/11

Matrix: (soil/water) WATER Lab Sample ID: 6162685

Sample wt/vol: 10 (g/ml) ml Lab File ID: 1K11349.16R

% Moisture: Decanted: (Y/N) Date Received: 12/11/2010

Extraction: (SepF/Cont/Sonc) Direct Injection Date Extracted: 12/15/2010

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/15/2010

Injection Volume: 30 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
123-77-3	Kempore	12000	P

OLN56 #997

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6162685R MS ISCSW Sample ID: AA **Batchnumber: 103490027A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: OLN54 State: MA
Analyses: 02726 02727

Analysis Report (A)

Injected on	: DEC 15, 2010 22:10:31
Instrument	: CP09--K3593A
Result file	: 1K11349.16R
Calibration file	: 1K11349.CAL
Method file	: KEMP.MET
%SSR(Kempore)	:

Analysis Report (B)

Injected on	: DEC 15, 2010 22:10:31
Instrument	: CP09--K3593B
Result file	: 1K11349B.16R
Calibration file	: 1K11349B.CAL
Method file	: KEMPB.MET
%SSR(Kempore)	:

Peak name	Min	R.T.	Max	Height	Amount
Kempore	2.39	2.42	2.59	21317	12246.091797

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Kempore	A	12246.091797	<1000	<230			

Units: ug/l

Reviewed by: [signature] Date: 12/19/10
Verified by: [signature] Date:

DEC 2 1 2010

Sarah Snyder
Senior Specialist

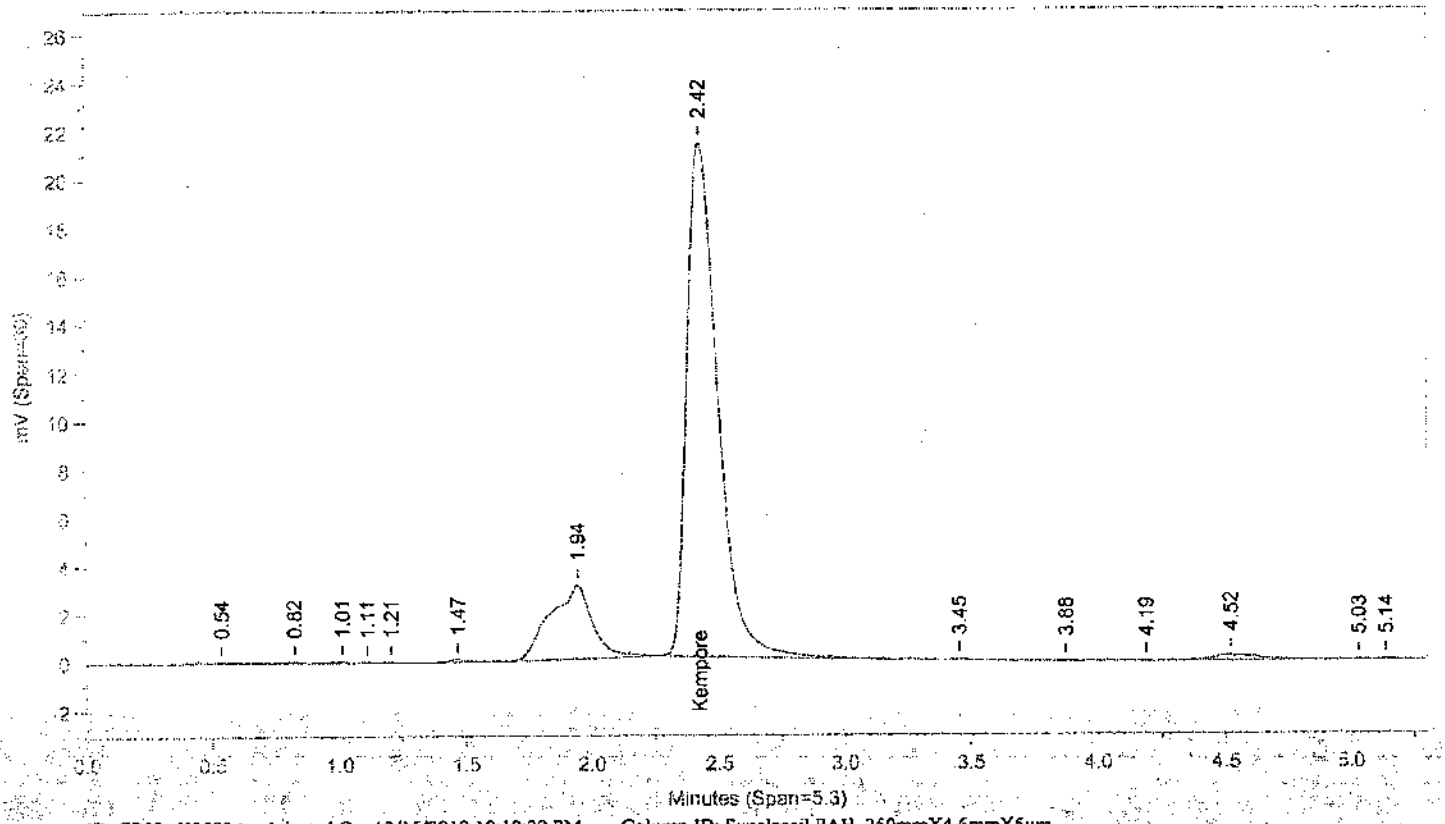
%Difference = High - Low Amount divided by the Average times 100

Higher Amount Found

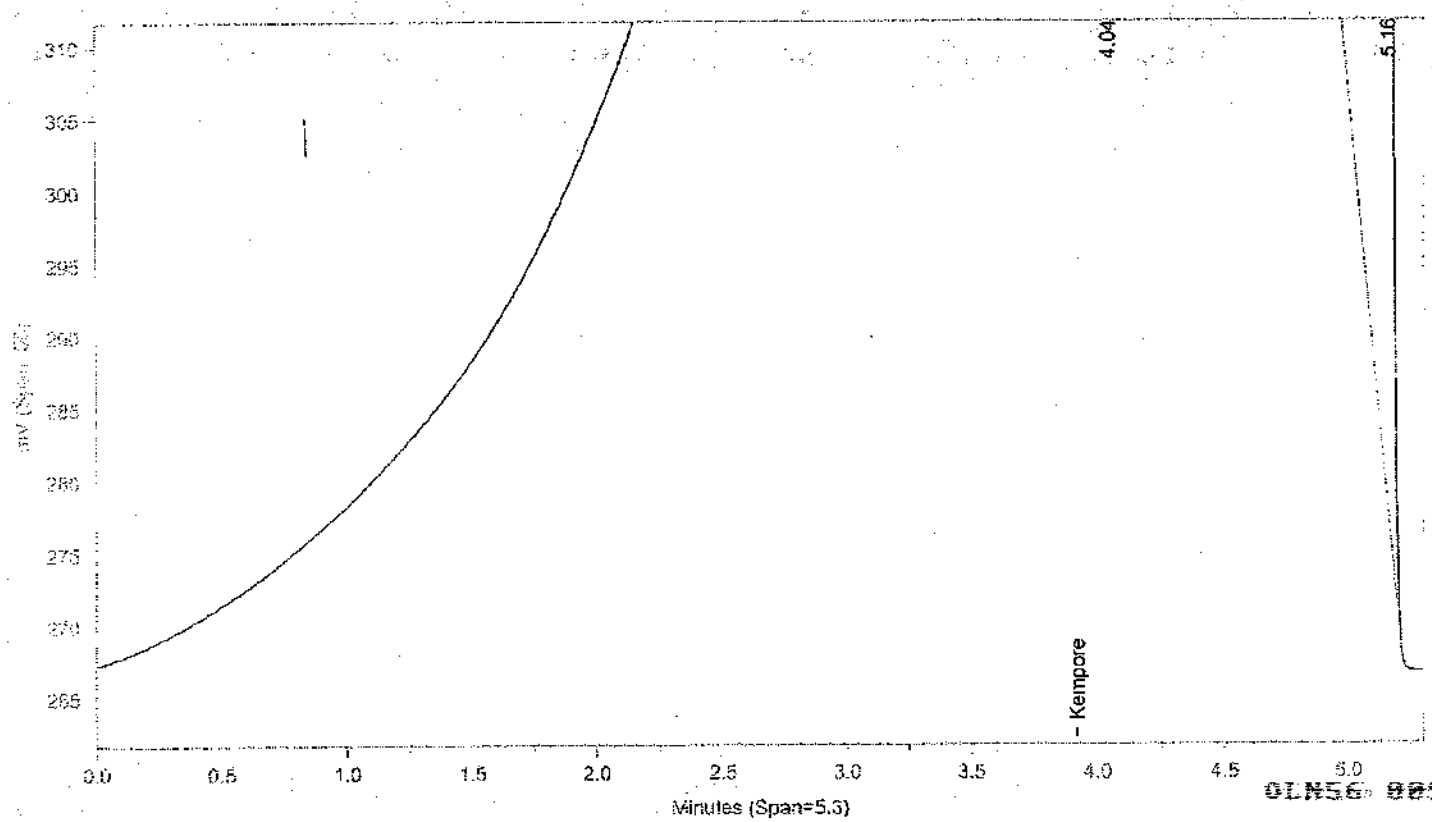
* Recovery outside QC Limits

Printed on: 12/16/10 16:19:15

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1K11349.16R



Instrument ID: CP09--K3593A Injected On: 12/15/2010 10:10:30 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/15/2010 10:10:30 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.422	21317	12246.09	Kempore			0	Kempore

Files:
Area File: C:\CPWIN\DATA1\IK11349.16A
Area File: C:\CPWIN\DATA1\IK11349B.16A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\IK11349.CAL
Calibration File B: C:\CPWIN\DATA1\IK11349B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/15/2010 10:15:54 PM
File Reported On: 12/15/2010 at 10:16:04 PM

1D

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO.

ISCSWRE ~~RE~~ MS D

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103490027A

Lab Code: Case No.: SAS No.: SDG No.: OLN54

Matrix: (soil/water) WATER Lab Sample ID: 6162686

Sample wt/vol: 10 (g/ml) ml Lab File ID: 1K11349.17R

% Moisture: Decanted: (Y/N) Date Received: 12/11/2010

Extraction: (SepF/Cont/Sonc) Direct Injection Date Extracted: 12/15/2010

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/15/2010

Injection Volume: 30 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
123-77-3	Kempore	12000	

OLN56 0181

Lancaster Laboratories Single Component Data Summary

Sample Name: 6162686R MSD ISCSW Sample ID: AA **Batchnumber: 103490027A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: OLN54 State: MA
Analyses: 02726 02727

Analysis Report (A)

Injected on : DEC 15, 2010 22:16:23
Instrument : CP09--K3593A
Result file : 1K11349.17R
Calibration file : 1K11349.CAL
Method file : KEMP.MET
%SSR(Kempore) :

Peak name	Min	R.T.	Max	Height	Amount
Kempore	2.39	2.43	2.59	21001	12064.842773

Analysis Report (B)

Injected on : DEC 15, 2010 22:16:23
Instrument : CP09--K3593B
Result file : 1K11349B.17R
Calibration file : 1K11349B.CAL
Method file : KEMPB.MET
%SSR(Kempore) :

Peak name	Min	R.T.	Max	Height	Amount
Kempore	3.82	4.01	4.02	23848	12649.107422

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Kempore	~~B~~ A	~~12649.107422~~ 12064.842773	1000	230		4.73	

Units: ug/l

Reviewed by: 1566 Date: 12/19/10
Verified by: Date:

DEC 2 1 2010

Sarah Snyder
Senior Specialist

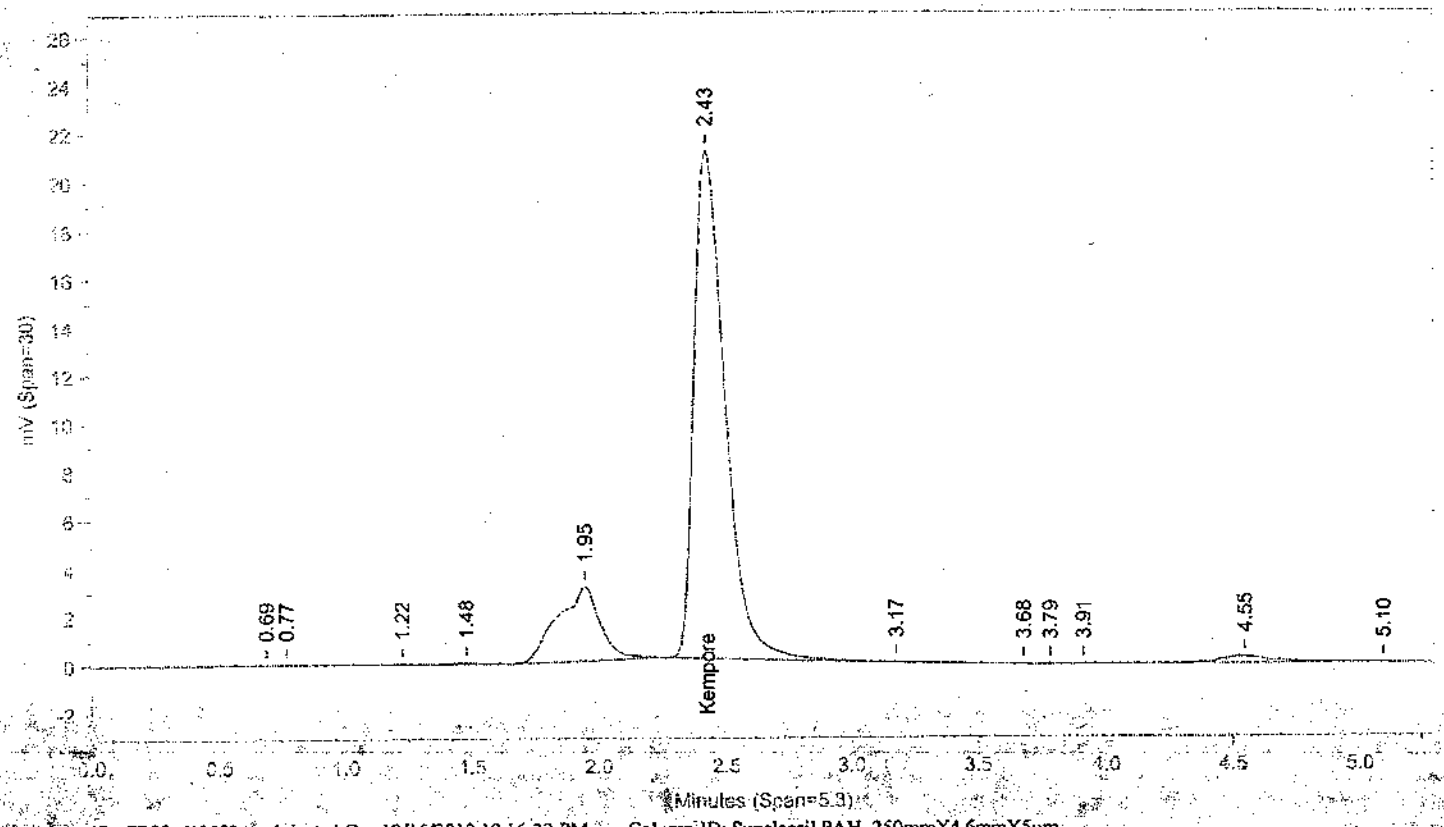
%Difference = High - Low Amount divided by the Average times 100

Higher Amount ~~Found~~ OLN54 0182

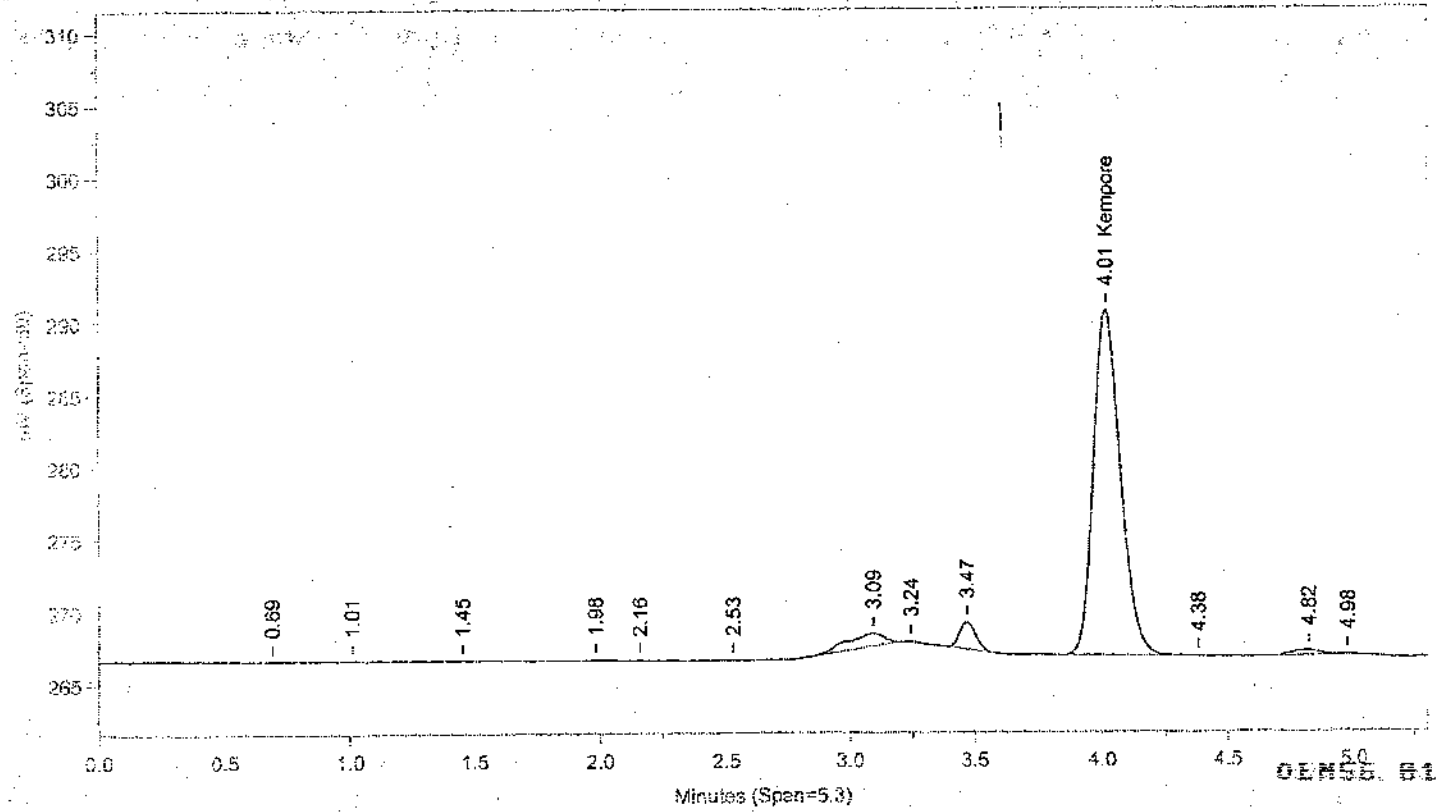
* Recovery outside QC Limits

Printed on: 12/16/10 16:19:44

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\K11349.17R



Instrument ID: CP09--K3593A Injected On: 12/15/2010 10:16:22 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--K3593B Injected On: 12/15/2010 10:16:22 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 100% Phosphate buffer

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: -5 Width: 0.1
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.426	21001	12064.84	Kempore	4.013	23848	12649.11	Kempore

Files:
Area File: C:\CPWIN\DATA1\IK11349.17A
Area File: C:\CPWIN\DATA1\IK11349B.17A
Method A: C:\CPWIN\DATA1\KEMP.MET
Method B: C:\CPWIN\DATA1\KEMPB.MET
Calibration File A: C:\CPWIN\DATA1\IK11349.CAL
Calibration File B: C:\CPWIN\DATA1\IK11349B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/15/2010 10:21:48 PM
File Reported On: 12/15/2010 at 10:21:56 PM

Extraction/Distillation/Digestion Logs

Organic Extraction Batchlog Assigned to: 1566 James Place

Reviewed by: [illegible] Start Date: 12/15/10 Start time: 8:00pm

103490027A

Tech 1: [illegible] Tech 2:

Dept: 24 Prep Analysis: 00000 Kempore in Water

QC	Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
6162685MS	ISCSW	10				1.0	100	—	—	55A	Yellowish with Brown sediment
	ISCSW										
6162686MSD	ISCSW	10				1.0	100	—	—	55A	
	ISCSW										
BLANKA	PBLK27349	10					100	—	—	N/C	
	PBLK27349										
LCSA	LCS27349	10				1.0	100	—	—	N/C	
	LCS27349										
LCSDA	LCSD27349	10				1.0	100	—	—	N/C	
	LCSD27349										

ST10327243 - Kempore

Sample #			Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
1	6162682	R	EBK--	10			10			55A		~~02726~~ 02727	12/27/2010	P
2	6162683	R	ISCDP	10			10				Yellowish with Brown sediment	~~02726~~ 02727	12/27/2010	P
3	6162684BKGR		ISCSW	10			10					~~02726~~ 02727	12/27/2010	P
4	6162688	R	ISCS2	10			10					~~02726~~ 02727	12/27/2010	P
5	6162689	R	OPWD1	10			10				Yellowish with Brown sediment	~~02726~~ 02727	12/27/2010	P
6	6162690	R	OPWD2	10			10					~~02726~~ 02727	12/27/2010	P
7	6162691	R	OPWDS	10			10					~~02726~~ 02727	12/27/2010	P
8	6162692	R	PZ16R	10			10				Yellowish sediment	~~02726~~ 02727	12/27/2010	P
9	6162693	R	PZ17R	10			10					~~02726~~ 02727	12/27/2010	P
10	6162694	R	SWSD1	10			10					~~02726~~ 02727	12/27/2010	P
11	6165071		SW0--	10			10					~~02726~~ 02727	12/29/2010	P
12	6165072		SW1--	10			10					~~02726~~ 02727	12/29/2010	P
13	6165073		SW2--	10			10					~~02726~~ 02727	12/29/2010	P
14	6165074		SW5--	10			10					~~02726~~ 02727	12/29/2010	P

Rack ID:		Work Station	
Internal Standard		Balance #	

S-bath ID	C	S-bath ID	C	N-Evap	C	M-vap	C	103490027A

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume

Opex Data

Case Narrative
Conformance/Nonconformance
Summary

Lancaster Laboratories

CLIENT: Olin Corporation
SDG: OLN56

LANCASTER LABORATORIES

Opex

		MATRIX		
LLI SAMPLE #	**SAMPLE CODE**	**WATER**	**SOLID**	**COMMENT**
BLANKA 12/16/10	PBLK33348	X		Method Blank
LCSA	LCS33348	X		Lab Control Spike
LCSDA	LCSD33348	X		Lab Control Spike Dup
6165071	SW0--	X		
6165072	SW1--	X		
6165073	SW2--	X		
6165074	SW5--	X		
LAB SUBMITTED QC:				
6162684	ISCSW	X		Unspiked
6162685MS	ISCSW	X		Matrix Spike
6162686MSD	ISCSW	X		Matrix Spike Dup

A. Sample Preparation:

The samples were analyzed eight days after collection due to an instrument failure. This is outside the laboratory holding time of seven days. However, there is no formally established regulatory holding time.

No other problems were encountered with the preparation of the samples.

B. Analysis:

No problems were encountered.

All continuing calibration data meet the method specification.

C. Quality Control:

Please note that US EPA Methods for organic compounds do not require action by the laboratory based on out-of-specification MS/MSD.

For preparation/method blank results >LOQ, corrective action is not required if the sample result is >10 times the blank concentration, unless otherwise specified in the method or by the client.

All QC data are within specifications.

D. Data Interpretation:

Due to interference from the sample matrix, the reporting limits were raised for 6165072 and 6165074.

No further interpretation is needed.

OLN56 #109

Lancaster Laboratories

Data codes:

Detected analytes are reported using the higher of the two column results in accordance with the method. Data with analytes showing disparity >40% are further evaluated for reporting based on chromatographic appearance. The analytes will be coded with a comment number on the data sheet. The comments are explained below:

- 1569 - A disparity of >40% between the primary and confirmatory analysis occurred. Due to suspected interference, the lower result was reported.
- 1570 - A disparity of >40% between the primary and confirmatory analysis occurred. Since no chromatographic anomalies were apparent, the higher result was reported.

Data that indicates that manual integration was required would include the following codes:
1 = missed peak and 2 = improper baseline. The peaks that have been manually changed are indicated with an "M" on the raw data.

Narrative reviewed and approved by:

Dana Kauffman, Manager Data Deliverables
Elizabeth A. Smith
Specialist

Date 1/13/11

OLM56: 0118

Quality Control and Calibration Summary Forms

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO. PBLK33348

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103480033A

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: BLANKA

Sample wt/vol: 10 (g/ml) ml Lab File ID: 1X11355.11R

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) Direct Injection Date Extracted: 12/16/2010

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/2010

Injection Volume: 35 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
101-25-7	Opex	20	U

01556 0112

3E

Water Lab Control Spike/Lab Control Spike Duplicate Recovery

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Laboratory Control Spike - Sample Code No.: LCS33348

Compound	Spike Added (ug/l)	LCS Concen (ug/l)	LCSD Concen (ug/l)	LCS % Rec #	LCSD % Rec #	LCS-LCSD % REC Limits	% RPD #	% RPD Lim
Opex	740	770	780	104	105	(70 - 130)	1	30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

Comments: Results calculated on as-received basis.

Sample No.: LCSA Batch: 103480033A

3E
Water Matrix Spike/Matrix Spike Duplicate Recovery

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix Spike - Sample Code No.: ISCSW

Compound	Spike Added (ug/l)	Sample Concen (ug/l)	MS Concen (ug/l)	MSD Concen (ug/l)	MS % Rec #	MSD % Rec #	MS-MSD % REC Limits	% RPD #	% RPD Lim
Opex	740	0	760	770	103	104	(70 - 130)	1	30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

Comments: Results calculated on as-received basis.

Sample No.: 6162684 Batch: 103480033A

OLM5.0 0114

4C

METHOD BLANK SUMMARY

SAMPLE CODE NO. PBLK33348

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.: OLN56

Lab Sample ID BLANKA Batch 103480033A

Lab File ID: 1X11355.11R 1X11355B.11R

Matrix: (soil/water) WATER

Extraction: (SepF/Cont/Sonc) Direct Injection

Sulfur Cleanup: (Y/N) N

Date Extracted: 12/16/2010

Date Analyzed (1): 12/21/2010

Date Analyzed (2): 12/21/2010

Time Analyzed (1): 16:46:53

Time Analyzed (2): 16:46:53

Instrument ID (1): X3593A

Instrument ID (2): X3593B

GC Column: SUP PAH ID: 250 (mm)

GC Column: CapCell CN ID: 250 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD

	SAMPLE CODE NO.	LAB SAMPLEID	DATE ANALYZED 1	DATE ANALYZED 2
01	ISCSW	6162684	12/21/2010	12/21/2010
02	ISCSW MS	6162685MS	12/21/2010	12/21/2010
03	ISCSW MSD	6162686MSD	12/21/2010	12/21/2010
04	SW0--	6165071	12/21/2010	12/21/2010
05	SW1--	6165072	12/21/2010	12/21/2010
06	SW2--	6165073	12/21/2010	12/21/2010
07	SW5--	6165074	12/21/2010	12/21/2010
08	PBLK33348	BLANKA	12/21/2010	12/21/2010
09	LCS33348	LCSA	12/21/2010	12/21/2010
10	LCSD33348	LCSDA	12/21/2010	12/21/2010

DMSK 1/12/11

OLN56 8115

COMMENTS: _____

6D

INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: X3593A Calibration File: 1X11355

GC Column (1) : SUP PAH ID: 250 (mm) Update File:

Date(s) Analyzed: 12/21/2010 12/21/2010

COMPOUND	RT OF STANDARDS LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MIDPOINT RT	RT WINDOW FROM	TO
Opex	2.62	2.64	2.64	2.64	2.62	2.62	2.52	2.72

01N56 0115

6D
INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: X3593B Calibration File: 1X11355B

GC Column (2) : CapCell CN ID: 250 (mm) Update File:

Date(s) Analyzed: 12/21/2010 12/21/2010

COMPOUND	RT OF STANDARDS					~~MIDPOINT~~ RT Level 5	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5		FROM	TO
Opex	4.41	4.36	4.36	4.36	4.37	4.37	4.27	4.47

HB/ 12/21/10

0LN56 0117

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: X3593A Calibration File: 1X11355

GC Column (1) : SUP PAH ID: 250 (mm) Date(s) Analyzed: 12/21/2010 12/21/2010

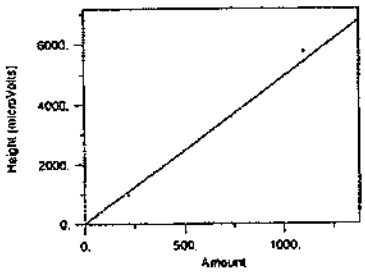
COMPOUND	CALIBRATION FACTORS						
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	%RSD
Opex	5.19E+00	4.38E+00	4.93E+00	4.87E+00	5.21E+00	4.92E+00	6.8
					Average % RSD:		6.8

01N56 8218

Calibration File Name: **C:\CPWIN\DATA1\1X11355.CAL** Version = 13
External standard calibration
No injection volume correction
No sample weight correction
Area reject threshold = 100
Reference peak area reject threshold = 1000
Amount units =
1 components with 5 levels each

1 Opex
Retention time = 2.622 min., Search window = 0.100 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	110.250	572.0	5.188446	1X11355.05A	12/21/2010 7:06:
2	220.500	966.8	4.384739	1X11355.06A	12/21/2010 7:06:
3	441.000	2175.5	4.933039	1X11355.07A	12/21/2010 7:06:
4	735.000	3578.5	4.86867	1X11355.08A	12/21/2010 7:07:
5	1102.500	5743.7	5.209679	1X11355.09A	12/21/2010 7:07:



Calibration formula: Y = 4.917 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9932, Average error = 4.72%
Average CF = 4.9169 with RSD = 6.79%

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: X3593B Calibration File: 1X11355B

GC Column (2) : CapCell CN ID: 250 (mm) Date(s) Analyzed: 12/21/2010 12/21/2010

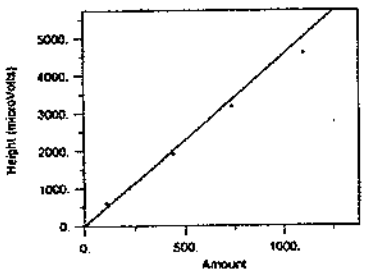
COMPOUND	CALIBRATION FACTORS						
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	%RSD
Opex	5.45E+00	4.53E+00	4.32E+00	4.31E+00	4.16E+00	4.55E+00	11.3
					Average % RSD:		11.3

OLM56.0128

Calibration File Name: **C:\CPWIN\DATA1\1X11355B.CAL** Version = 13
External standard calibration
No injection volume correction
No sample weight correction
Area reject threshold = 100
Reference peak area reject threshold = 1000
Amount units =
1 components with 5 levels each

1 Opex
Retention time = 4.371 min., Search window = 0.100 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	110.250	600.6	5.447538	1X11355B.05A	12/21/2010 7:06:
2	220.500	998.2	4.527036	1X11355B.06A	12/21/2010 7:06:
3	441.000	1906.5	4.323107	1X11355B.07A	12/21/2010 7:07:
4	735.000	3165.5	4.306799	1X11355B.08A	12/21/2010 7:07:
5	1102.500	4591.7	4.164783	1X11355B.09A	12/21/2010 7:07:



Calibration formula: Y = 4.554 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9779, Average error = 7.85%
Average CF = 4.5539 with RSD = 11.33%

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: X3593A Init. Calib Date(s): 12/21/10 12/21/10

GC Column (1) : SUP PAH ID: 250 (mm) Date Analyzed: 12/21/10

Lab File ID: 1X11355.21R Time Analyzed: 17:45

Lab Standard ID: OPEX3DF Initial Calibration: 1X11355

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Opex	2.63	2.52	2.72	426.59	441.00	-3.3
					Average of %D:	3.3

OLN56 0122

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: X3593B Init. Calib Date(s): 12/21/10 12/21/10

GC Column (2) : CapCell CN ID: 250 (mm) Date Analyzed: 12/21/10

Lab File ID: 1X11355B.21R Time Analyzed: 17:45

Lab Standard ID: OPEX3DF Initial Calibration: 1X11355B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Opex	4.37	4.27	4.47	423.94	441.00	-3.9
					Average of %D:	3.9

OLN56-8123

FORM VII

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: X3593A Init. Calib Date(s): 12/21/10 12/21/10

GC Column (1) : SUP PAH ID: 250 (mm) Date Analyzed: 12/21/10

Lab File ID: 1X11355.31R Time Analyzed: 18:44

Lab Standard ID: OPEX3DG Initial Calibration: 1X11355

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Opex	2.67	2.52	2.72	430.53	441.00	-2.4
					Average of %D:	2.4

OLN56 0124

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: X3593B Init. Calib Date(s): 12/21/10 12/21/10

GC Column (2) : CapCell CN ID: 250 (mm) Date Analyzed: 12/21/10

Lab File ID: 1X11355B.31R Time Analyzed: 18:44

Lab Standard ID: OPEX3DG Initial Calibration: 1X11355B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Opex	4.31	4.27	4.47	440.45	441.00	-0.1

Average of %D: .1

01N56 0125

FORM VII

8D
ANALYTICAL SEQUENCE

Sequence: 1X11355 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: SUP PAH ID: 250

Instrument: X3593A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
001		CONDITIONER	12/21/2010	15:48:16	1X11355
002		CONDITIONER	12/21/2010	15:54:08	1X11355
003		CONDITIONER	12/21/2010	16:00:01	1X11355
004		CONDITIONER	12/21/2010	16:05:53	1X11355
005	OPEX1AA	OPEX11024D	12/21/2010	16:11:44	1X11355
006	OPEX2AA	OPEX21024D	12/21/2010	16:17:36	1X11355
007	OPEX3AA	OPEX31024D	12/21/2010	16:23:27	1X11355
008	OPEX4AA	OPEX41024D	12/21/2010	16:29:19	1X11355
009	OPEX5AA	OPEX51024D	12/21/2010	16:35:10	1X11355
010	MDOXXAA	MDOXX1024D	12/21/2010	16:41:01	1X11355
011	PBLK33348	BLANKA	12/21/2010	16:46:53	1X11355
012	LCS33348	LCSA	12/21/2010	16:52:45	1X11355
013	LCSD33348	LCSDA	12/21/2010	16:58:36	1X11355
014	EBK--	6162682	12/21/2010	17:04:28	1X11355
015	ISCDP	6162683	12/21/2010	17:10:20	1X11355
016	ISCSW	6162684	12/21/2010	17:16:12	1X11355
017	ISCSW	6162685	12/21/2010	17:22:03	1X11355
018	ISCSW	6162686	12/21/2010	17:27:55	1X11355
019	ISCS2	6162688	12/21/2010	17:33:47	1X11355
020	OPWD1	6162689	12/21/2010	17:39:38	1X11355
021	OPEX3DF	OPEX31024D	12/21/2010	17:45:30	1X11355
022	OPWD2	6162690	12/21/2010	17:51:22	1X11355
023	OPWDS	6162691	12/21/2010	17:57:15	1X11355
024	PZ16R	6162692	12/21/2010	18:03:07	1X11355
025	PZ17R	6162693	12/21/2010	18:09:00	1X11355
026	SWSD1	6162694	12/21/2010	18:14:52	1X11355
027	SW0--	6165071	12/21/2010	18:20:44	1X11355
028	SW1--	6165072	12/21/2010	18:26:36	1X11355
029	SW2--	6165073	12/21/2010	18:32:28	1X11355
030	SW5--	6165074	12/21/2010	18:38:20	1X11355
031	OPEX3DG	OPEX31024D	12/21/2010	18:44:12	1X11355

8D
ANALYTICAL SEQUENCE

Sequence: 1X11355B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: CapCell CN ID: 250

Instrument: X3593B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
001		CONDITIONER	12/21/2010	15:48:16	1X11355B
002		CONDITIONER	12/21/2010	15:54:08	1X11355B
003		CONDITIONER	12/21/2010	16:00:01	1X11355B
004		CONDITIONER	12/21/2010	16:05:53	1X11355B
005	OPEX1AA	OPEX11024D	12/21/2010	16:11:44	1X11355B
006	OPEX2AA	OPEX21024D	12/21/2010	16:17:36	1X11355B
007	OPEX3AA	OPEX31024D	12/21/2010	16:23:27	1X11355B
008	OPEX4AA	OPEX41024D	12/21/2010	16:29:19	1X11355B
009	OPEX5AA	OPEX51024D	12/21/2010	16:35:10	1X11355B
010	MDOXXAA	MDOXX1024D	12/21/2010	16:41:01	1X11355B
011	PBLK33348	BLANKA	12/21/2010	16:46:53	1X11355B
012	LCS33348	LCSA	12/21/2010	16:52:45	1X11355B
013	LCSD33348	LCSDA	12/21/2010	16:58:36	1X11355B
014	EBK--	6162682	12/21/2010	17:04:28	1X11355B
015	ISCDP	6162683	12/21/2010	17:10:20	1X11355B
016	ISCSW	6162684	12/21/2010	17:16:12	1X11355B
017	ISCSW	6162685	12/21/2010	17:22:03	1X11355B
018	ISCSW	6162686	12/21/2010	17:27:55	1X11355B
019	ISCS2	6162688	12/21/2010	17:33:47	1X11355B
020	OPWD1	6162689	12/21/2010	17:39:38	1X11355B
021	OPEX3DF	OPEX31024D	12/21/2010	17:45:30	1X11355B
022	OPWD2	6162690	12/21/2010	17:51:22	1X11355B
023	OPWDS	6162691	12/21/2010	17:57:15	1X11355B
024	PZ16R	6162692	12/21/2010	18:03:07	1X11355B
025	PZ17R	6162693	12/21/2010	18:09:00	1X11355B
026	SWSD1	6162694	12/21/2010	18:14:52	1X11355B
027	SW0--	6165071	12/21/2010	18:20:44	1X11355B
028	SW1--	6165072	12/21/2010	18:26:36	1X11355B
029	SW2--	6165073	12/21/2010	18:32:28	1X11355B
030	SW5--	6165074	12/21/2010	18:38:20	1X11355B
031	OPEX3DG	OPEX31024D	12/21/2010	18:44:12	1X11355B

10A

IDENTIFICATION SUMMARY

SAMPLE CODE NO.

LCS33348

Lab Name: Lancaster Laboratories **Contract:** **Batchnumber:** 103480033A

Lab Code: **Case No.:** **SAS No.:** **SDG No.:**

Lab Sample ID: LCSA **Date(s) Analyzed:** 12/21/2010 12/21/2010

Instrument ID (1): X3593A **Instrument ID (2):** X3593B

GC Column (1): SUP PAH **ID:** 250 (mm) **GC Column (2):** CapCell CN **ID:** 250 (mm)

ANALYTE	COL	RT	FROM	TO	CONCENTRATION	%D
Opex	1	2.64	2.52	2.72	770	
	2	4.36	4.27	4.47	690	11.0

OLN56 8128

10A

IDENTIFICATION SUMMARY

SAMPLE CODE NO.

LCSD33348

Lab Name: Lancaster Laboratories **Contract:** **Batchnumber:** 103480033A

Lab Code: **Case No.:** **SAS No.:** **SDG No.:**

Lab Sample ID: LCSDA **Date(s) Analyzed:** 12/21/2010 12/21/2010

Instrument ID (1): X3593A **Instrument ID (2):** X3593B

GC Column (1): SUP PAH **ID:** 250 (mm) **GC Column (2):** CapCell CN **ID:** 250 (mm)

ANALYTE	COL	RT	FROM	TO	CONCENTRATION	%D
Opex	1	2.64	2.52	2.72	780	
	2	4.36	4.27	4.47	710	9.4

OLN56: 8129

10A

IDENTIFICATION SUMMARY

SAMPLE CODE NO.

ISCSW MS

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103480033A

Lab Code: Case No.: SAS No.: SDG No.: OLN54

Lab Sample ID: 6162685 Date(s) Analyzed: 12/21/2010 12/21/2010

Instrument ID (1): X3593A Instrument ID (2): X3593B

GC Column (1): SUP PAH ID: 250 (mm) GC Column (2): CapCell CN ID: 250 (mm)

ANALYTE	COL	RT	FROM	TO	CONCENTRATION	%D
Opex	1	2.70	2.52	2.72	760	
	2	4.24	4.27	4.47	670	12.6

OLN56 0130

IDENTIFICATION SUMMARY

SAMPLE CODE NO.

ISCSW MSD

Lab Name: Lancaster Laboratories **Contract:** **Batchnumber:** 103480033A

Lab Code: **Case No.:** **SAS No.:** **SDG No.:** OLN54

Lab Sample ID: 6162686 **Date(s) Analyzed:** 12/21/2010 12/21/2010

Instrument ID (1): X3593A **Instrument ID (2):** X3593B

GC Column (1): SUP PAH **ID:** 250 (mm) **GC Column (2):** CapCell CN **ID:** 250 (mm)

ANALYTE	COL	RT	FROM	TO	CONCENTRATION	%D
Opex	1	2.70	2.52	2.72	770	
	2	4.25	4.27	4.47	700	9.5

OLN56[illegible]

Sample Data

Lancaster Laboratories

LOQ and MDL by Analysis Number

COMPONENT NAME	MDL	LOQ	DEFAULT UNITS
02726: Opex in Water			
Opex in Water	20	100	ug/l

OLN56 8133

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO. SW0--

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103480033A

Lab Code: Case No.: SAS No.: SDG No.: OLN56

Matrix: (soil/water) WATER Lab Sample ID: 6165071

Sample wt/vol: 10 (g/ml) ml Lab File ID: 1X11355.27R

% Moisture: Decanted: (Y/N) Date Received: 12/15/2010

Extraction: (SepF/Cont/Sonc) Direct Injection Date Extracted: 12/16/2010

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/2010

Injection Volume: 35 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
101-25-7	Opex	20	U

OLN56 8134

Lancaster Laboratories Single Component Data Summary

Sample Name: 6165071 SW0-- Sample ID: AA **Batchnumber: 103480033A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: OLN56 State: MA
Analyses: 02726 02727

Analysis Report (A)

Injected on	: DEC 21, 2010 18:20:44
Instrument	: CP09--X3593A
Result file	: 1X11355.27R
Calibration file	: 1X11355.CAL
Method file	: OPEX.MET

Analysis Report (B)

Injected on	: DEC 21, 2010 18:20:44
Instrument	: CP09--X3593B
Result file	: 1X11355B.27R
Calibration file	: 1X11355B.CAL
Method file	: OPEXB.MET

Peak name	Min	R.T.	Max	Height	Amount
Opex	2.52	2.79	2.72	61	12.369768

Peak name	Min	R.T.	Max	Height	Amount
Opex	4.27	4.14	4.47	58	12.634731

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Opex			<100	<20			

Units: ug/l

Reviewed by: 1566 Date: 12/23/10

Verified by: [signature] Date: [signature]

%Difference = High - Low Amount divided by the Average times 100

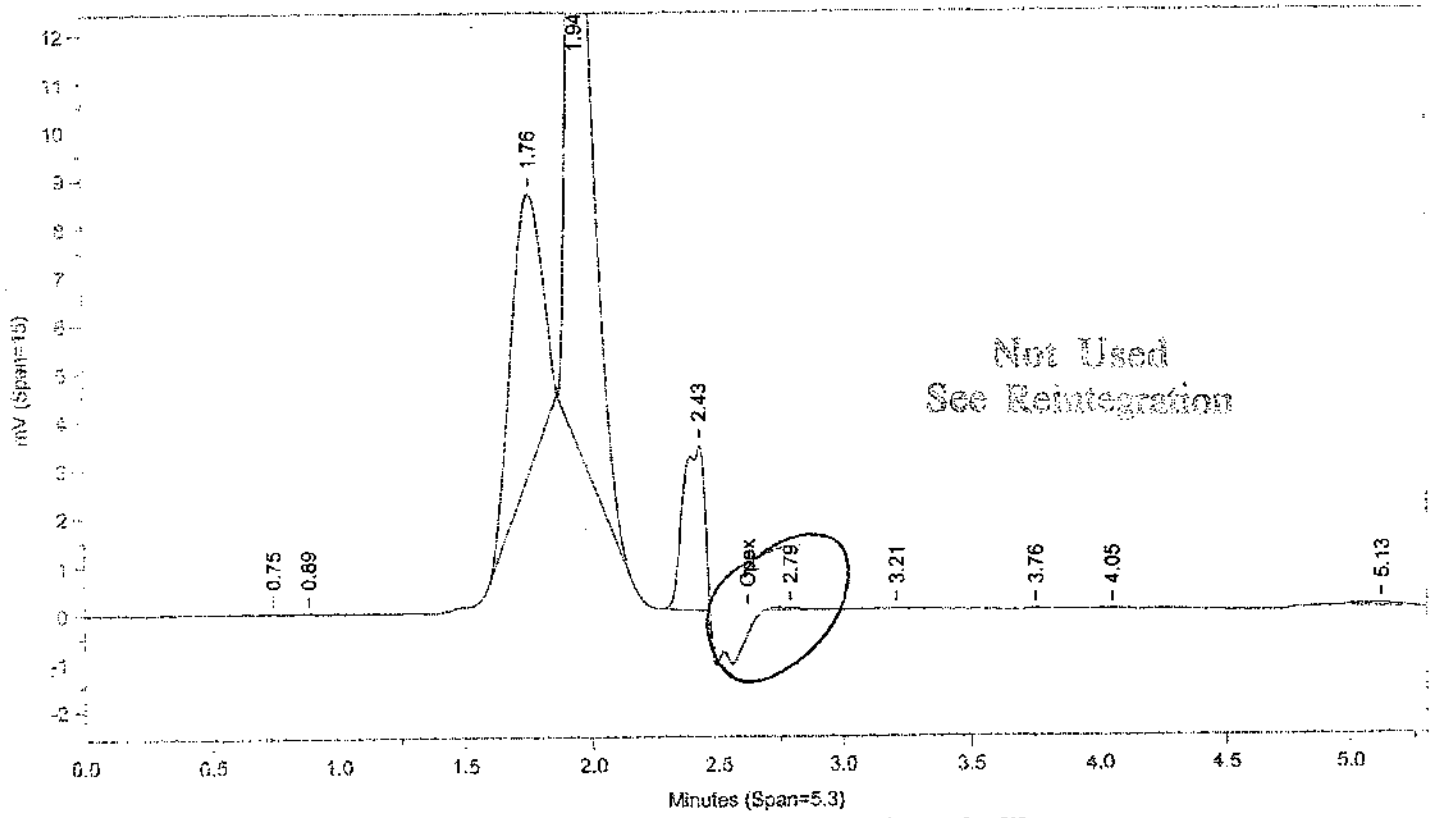
Higher Amount Found

OLN56 0135

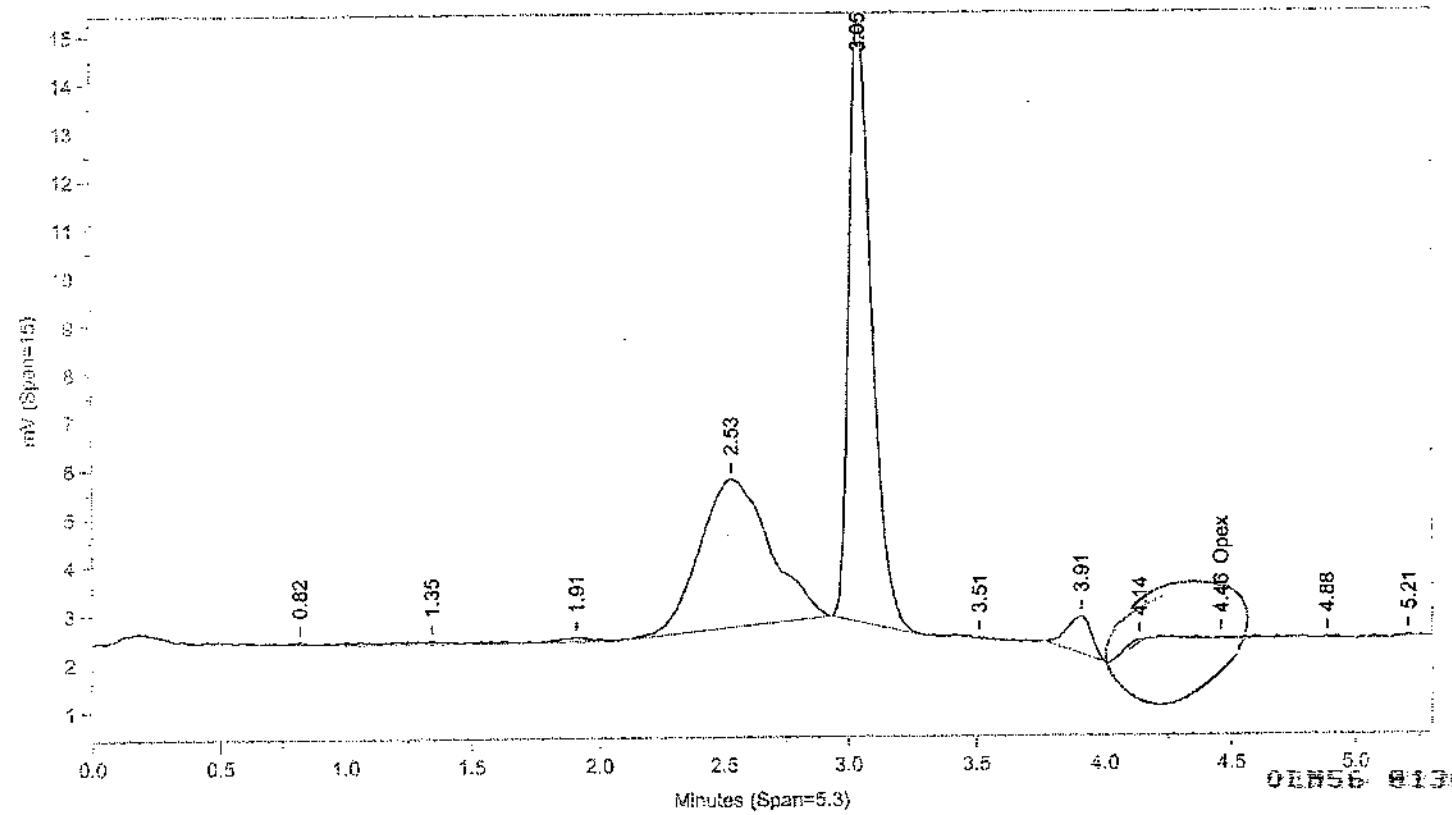
* Recovery outside QC Limits

Printed on: 12/21/10 19:51:13

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA\MX11355.27R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 6:20:43 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 6:20:43 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 10
Analyst: 1566

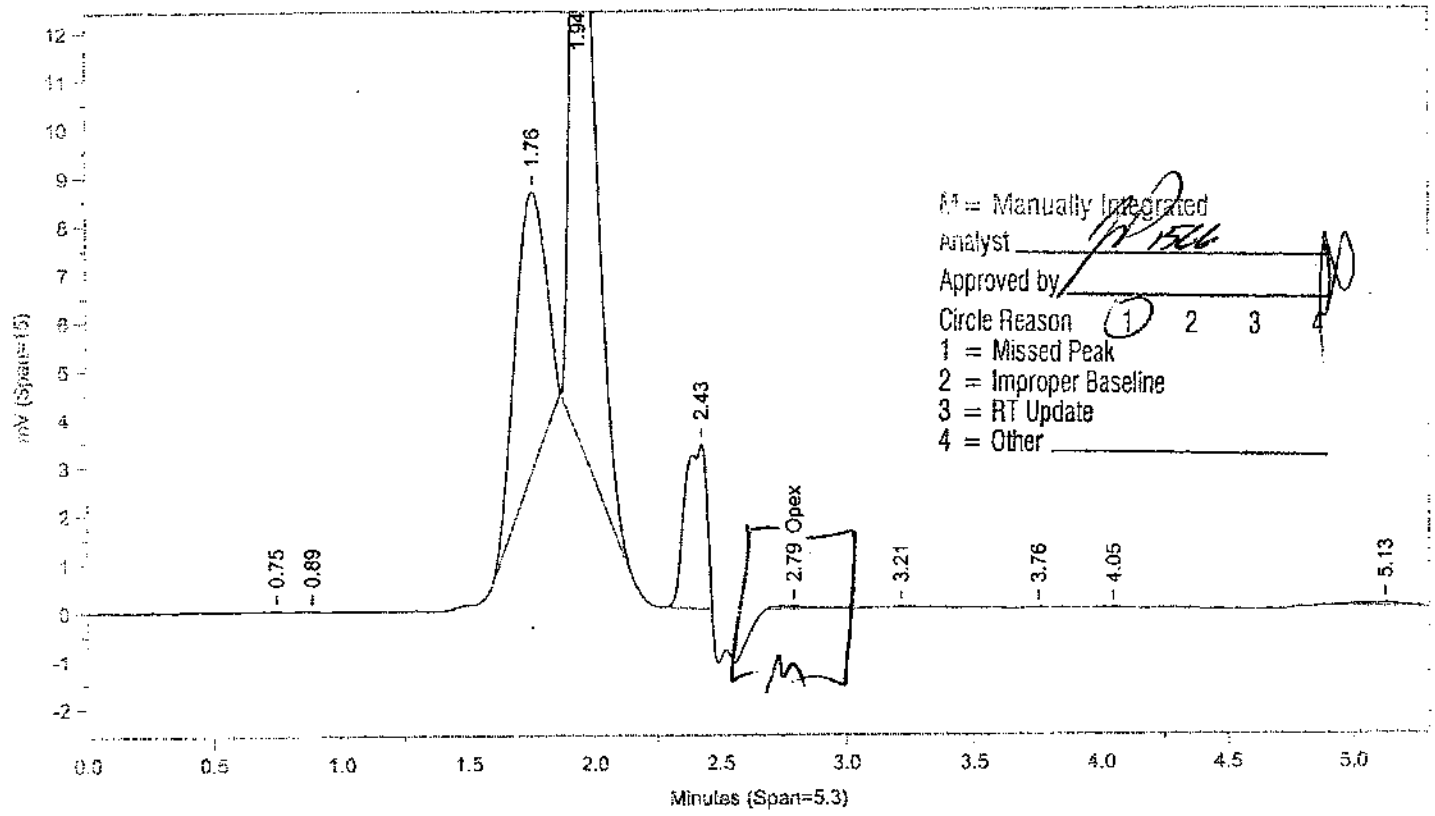
Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
.	0	.	Opex	4.461	41	8.93	Opex

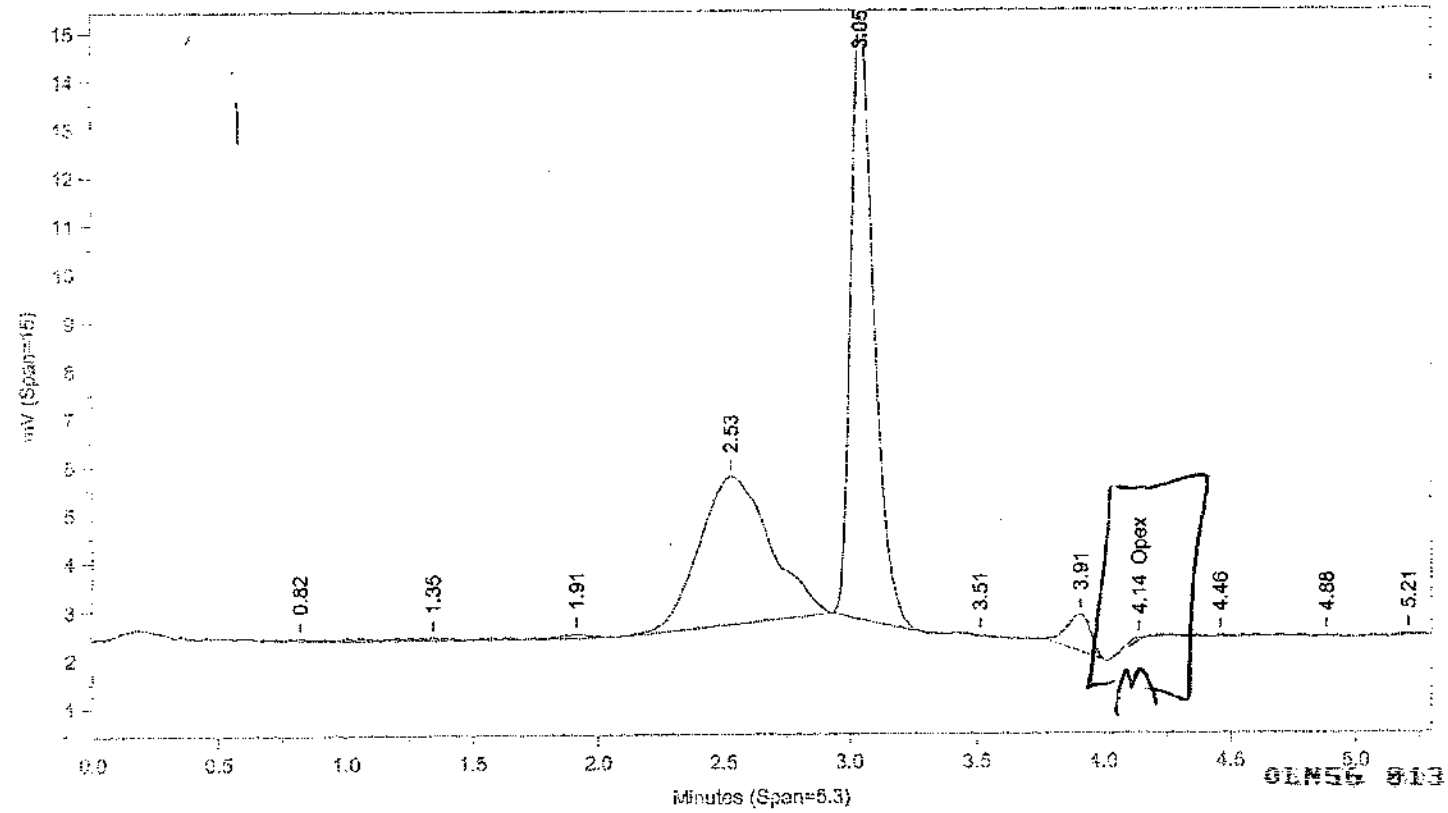
Files:
Area File: C:\CPWIN\DATA1\1X11355.27A
Area File: C:\CPWIN\DATA1\1X11355B.27A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\1X11355.CAL
Calibration File B: C:\CPWIN\DATA1\1X11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:15:08 PM
File Reported On: 12/21/2010 at 7:15:16 PM

Not Used
Non Reintegration

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1X11355.27R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 6:20:43 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 6:20:43 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.791	61	12.37	Opex	4.14	58	12.635	Opex

Files:
Area File: C:\CPWIN\~Dualcha.00A
Area File: C:\CPWIN\~Dualchb.00A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\1X11355.CAL
Calibration File B: C:\CPWIN\DATA1\1X11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:39:24 PM
File Reported On: 12/21/2010 at 7:39:22 PM

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO. SW1--

Lab Name: Lancaster Laboratories **Contract:** **Batchnumber:** 103480033A

Lab Code: **Case No.:** **SAS No.:** **SDG No.:** OLN56

Matrix: (soil/water) WATER **Lab Sample ID:** 6165072

Sample wt/vol: 10 (g/ml) ml **Lab File ID:** 1X11355.28R

% Moisture: **Decanted: (Y/N)** **Date Received:** 12/15/2010

Extraction: (SepF/Cont/Sonc) Direct Injection **Date Extracted:** 12/16/2010

Concentrated Extract Volume: 10000 (uL) **Date Analyzed:** 12/21/2010

Injection Volume: 35 (uL) **Dilution Factor:** 1

GPC Cleanup: (Y/N) N **pH:** **Sulfur Cleanup: (Y/N)** N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
101-25-7	Opex	34	U

OLN56 8148

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6165072 SW1-- Sample ID: AA **Batchnumber: 103480033A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: OLN56 State: MA
Analyses: 02726 02727

Analysis Report (A)

Injected on	: DEC 21, 2010 18:26:36
Instrument	: CP09--X3593A
Result file	: 1X11355.28R
Calibration file	: 1X11355.CAL
Method file	: OPEX.MET

Analysis Report (B)

Injected on	: DEC 21, 2010 18:26:36
Instrument	: CP09--X3593B
Result file	: 1X11355B.28R
Calibration file	: 1X11355B.CAL
Method file	: OPEXB.MET

Peak name	Min	R.T.	Max	Height	Amount
Opex	2.52	2.74	2.72	165	33.529640

Peak name	Min	R.T.	Max	Height	Amount
Opex	4.27	4.21	4.47	151	33.128365

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Opex	A	33.529640	<100	13.20	J	1.20	

Units: ug/l

Reviewed by: _____ Date: 12/23/10

Verified by: _____ Date: 12/28/10

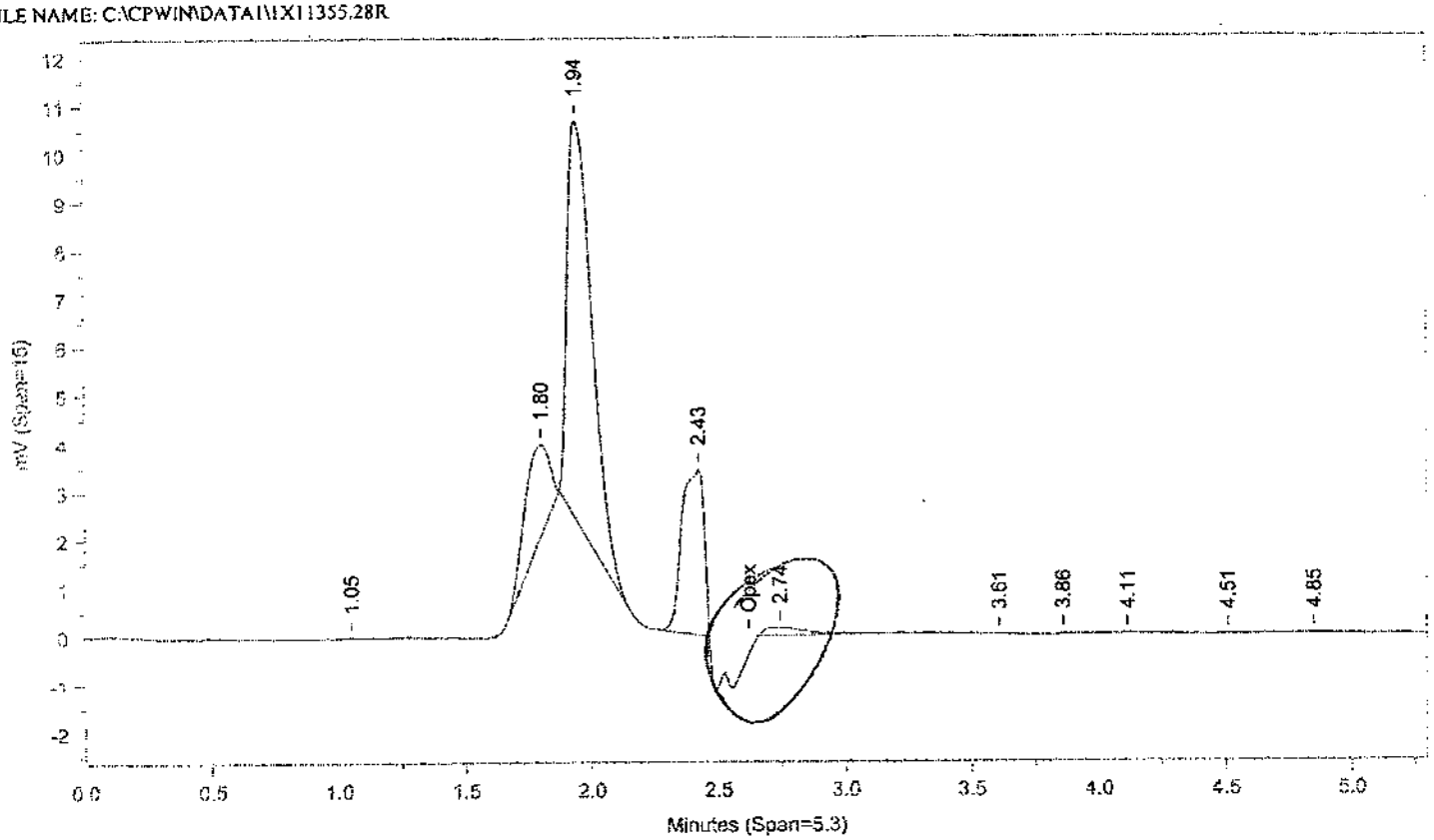
%Difference = High - Low Amount divided by the Average times 100

Higher Amount Found

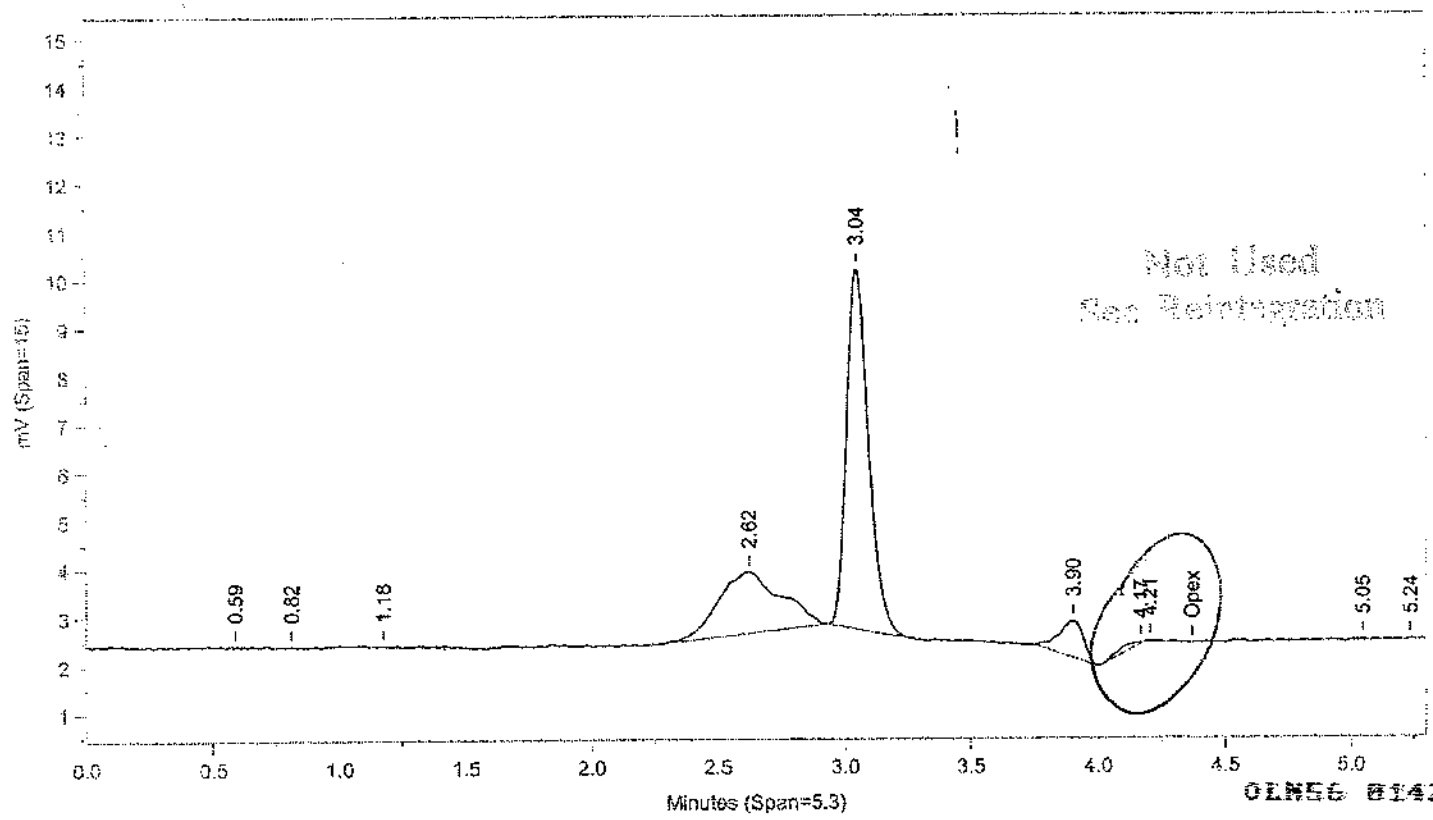
* Recovery outside QC Limits

Printed on: 12/21/10 19:51:33

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA\1X11355.28R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 6:26:35 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Not Used
See Reinjection

OLN56 8142

Instrument ID: CP09--X3593B Injected On: 12/21/2010 6:26:35 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 10
Analyst: 1566

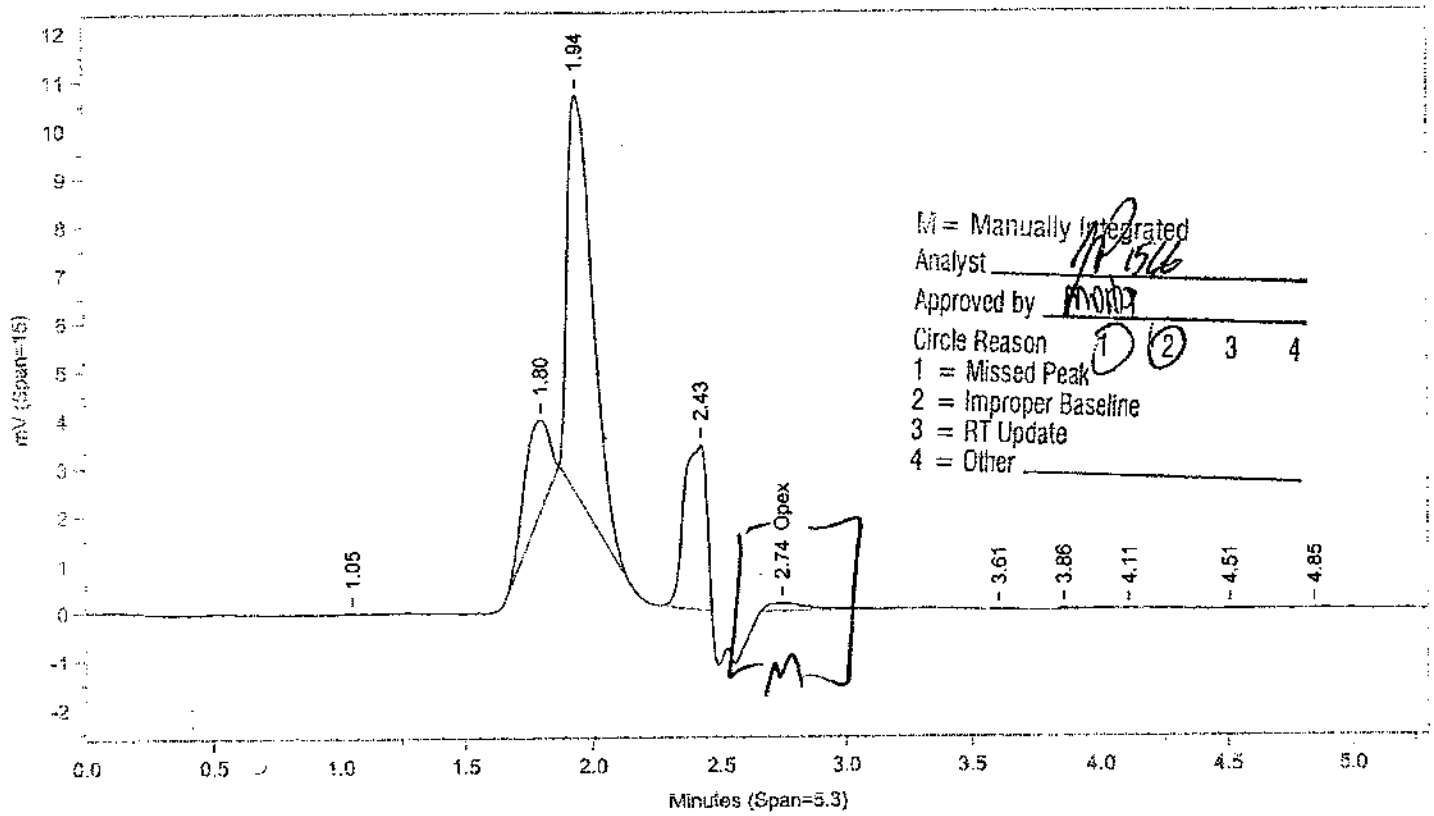
Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B

Files:
Area File: C:\CPWIN\DATA1\1X11355.28A
Area File: C:\CPWIN\DATA1\1X11355B.28A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\1X11355.CAL
Calibration File B: C:\CPWIN\DATA1\1X11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:15:28 PM
File Reported On: 12/21/2010 at 7:15:37 PM

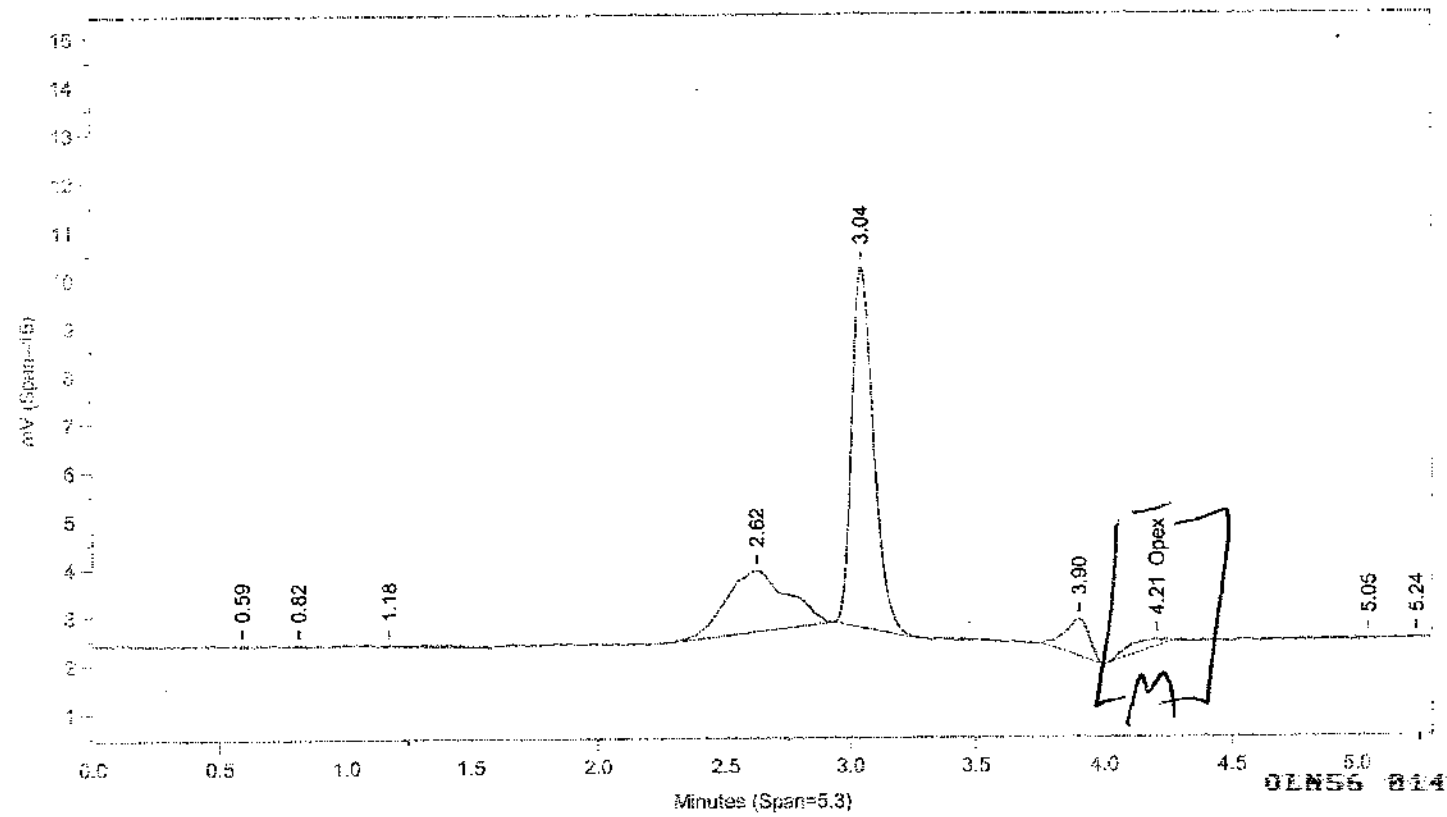
Not Used
See Reintegration

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\IX11355.28R



M = Manually Integrated
Analyst
Approved by
Circle Reason 1 2 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other

Instrument ID: CP09--X3593A Injected On: 12/21/2010 6:26:35 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 6:26:35 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 10

Dilution Factor: 10

Analyst: 1566

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.744	165	33.53	Opex	4.206	151	33.128	Opex

Files:
Area File: C:\CPWIN\~Dualcha.00A
Area File: C:\CPWIN\~Dualchb.00A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\LX11355.CAL
Calibration File B: C:\CPWIN\DATA1\LX11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:40:20 PM
File Reported On: 12/21/2010 at 7:40:19 PM

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO. SW2--

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103480033A

Lab Code: Case No.: SAS No.: SDG No.: OLN56

Matrix: (soil/water) WATER Lab Sample ID: 6165073

Sample wt/vol: 10 (g/ml) ml Lab File ID: 1X11355.29R

% Moisture: Decanted: (Y/N) Date Received: 12/15/2010

Extraction: (SepF/Cont/Sonc) Direct Injection Date Extracted: 12/16/2010

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/2010

Injection Volume: 35 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
101-25-7	Opex	20	U

OLN56 0146

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6165073 SW2-- Sample ID: AA **Batchnumber: 103480033A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: OLN56 State: MA
Analyses: 02726 02727

Analysis Report (A)

Injected on : DEC 21, 2010 18:32:28
Instrument : CP09--X3593A
Result file : 1X11355.29R
Calibration file : 1X11355.CAL
Method file : OPEX.MET

Analysis Report (B)

Injected on : DEC 21, 2010 18:32:28
Instrument : CP09--X3593B
Result file : 1X11355B.29R
Calibration file : 1X11355B.CAL
Method file : OPEXB.MET

Peak name	Min	R.T.	Max	Height	Amount
Opex	2.52	2.78	2.72	84	16.994577

Peak name	Min	R.T.	Max	Height	Amount
Opex	4.27	4.18	4.47	99	21.658316

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Opex			<100	<20			

Units: ug/l

Reviewed by: _____ Date: 12/23/10

Verified by: _____ Date: _____

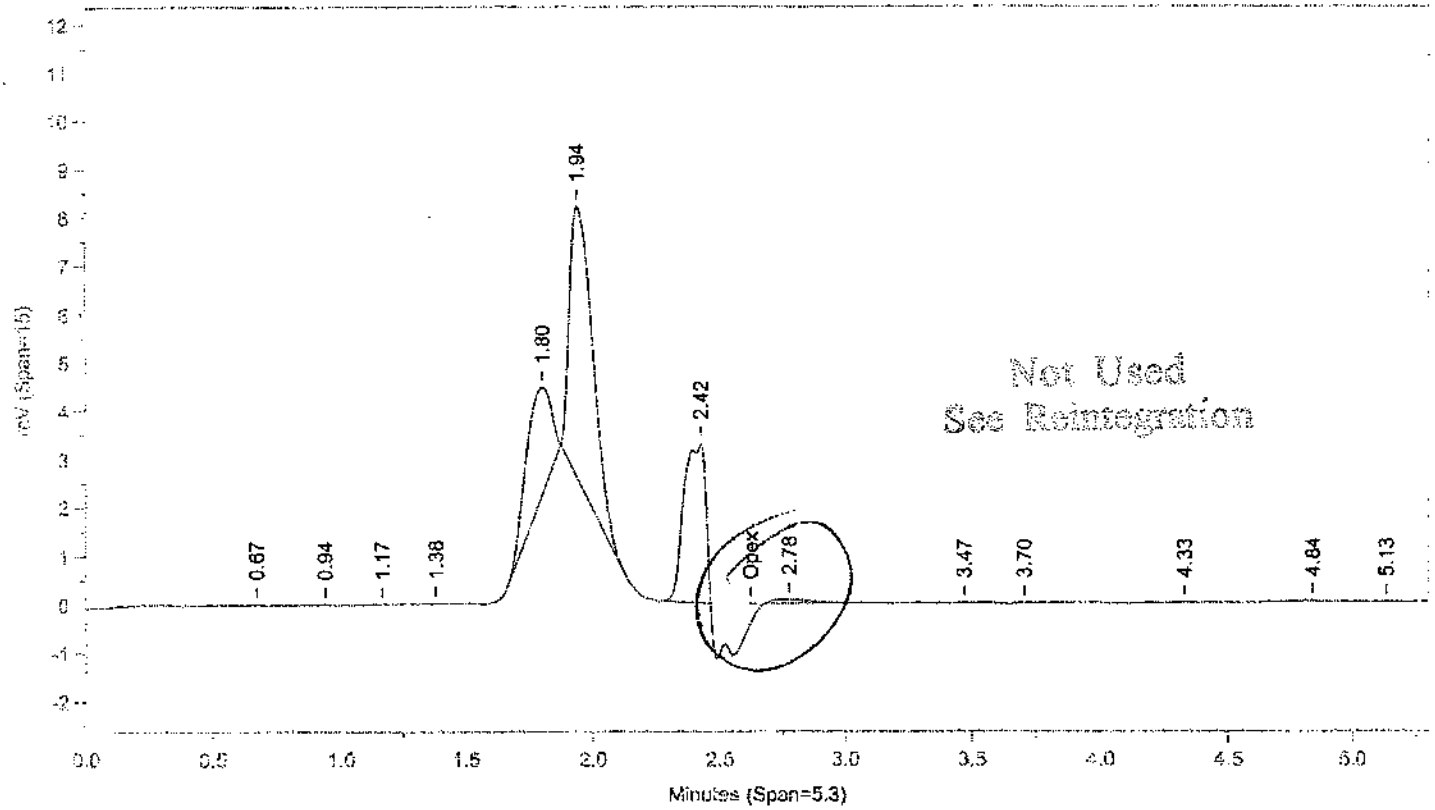
%Difference = High - Low Amount divided by the Average times 100

Higher Amount Found 8147

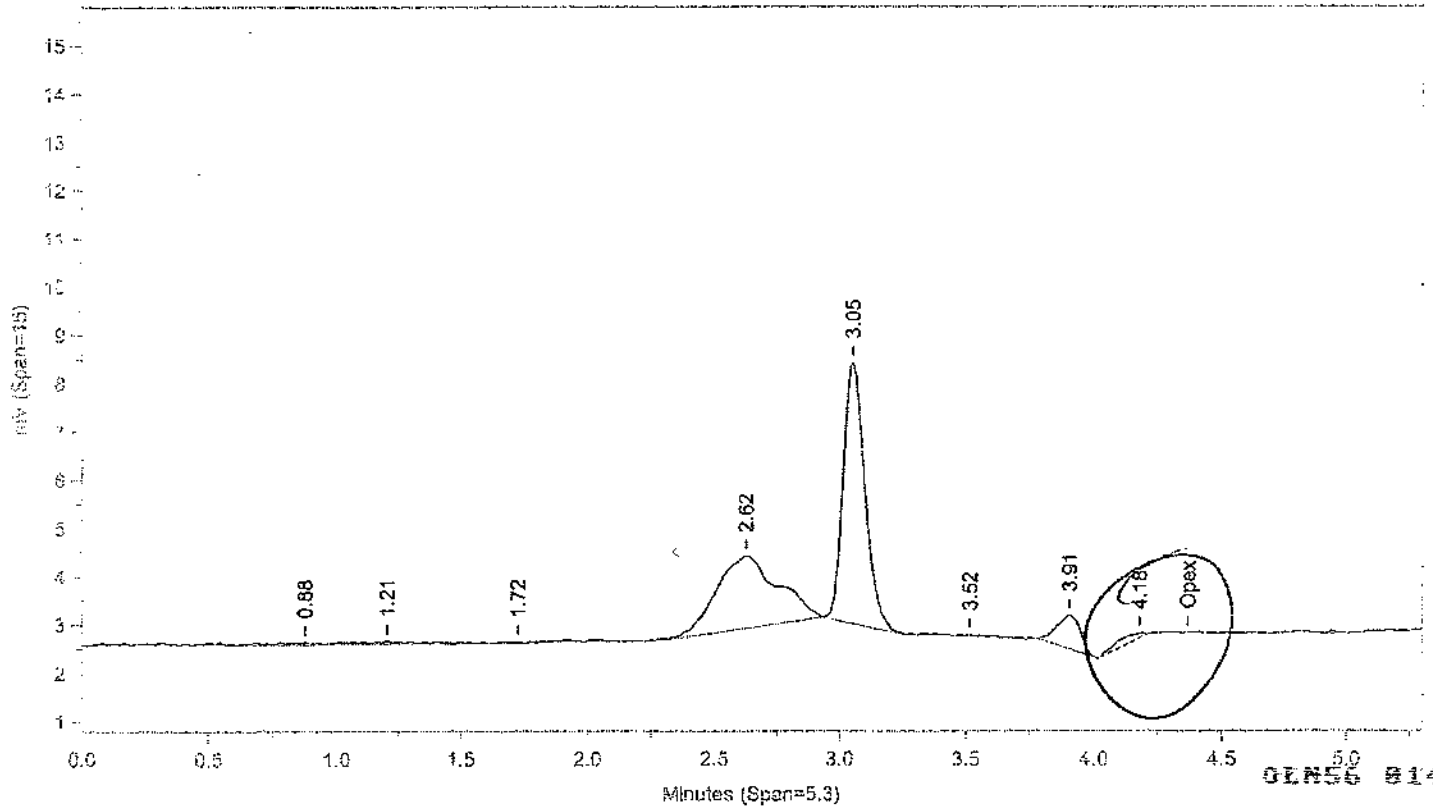
* Recovery outside QC Limits

Printed on: 12/21/10 19:51:52

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1X11355.29R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 6:32:27 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 6:32:27 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 10
Analyst: 1566

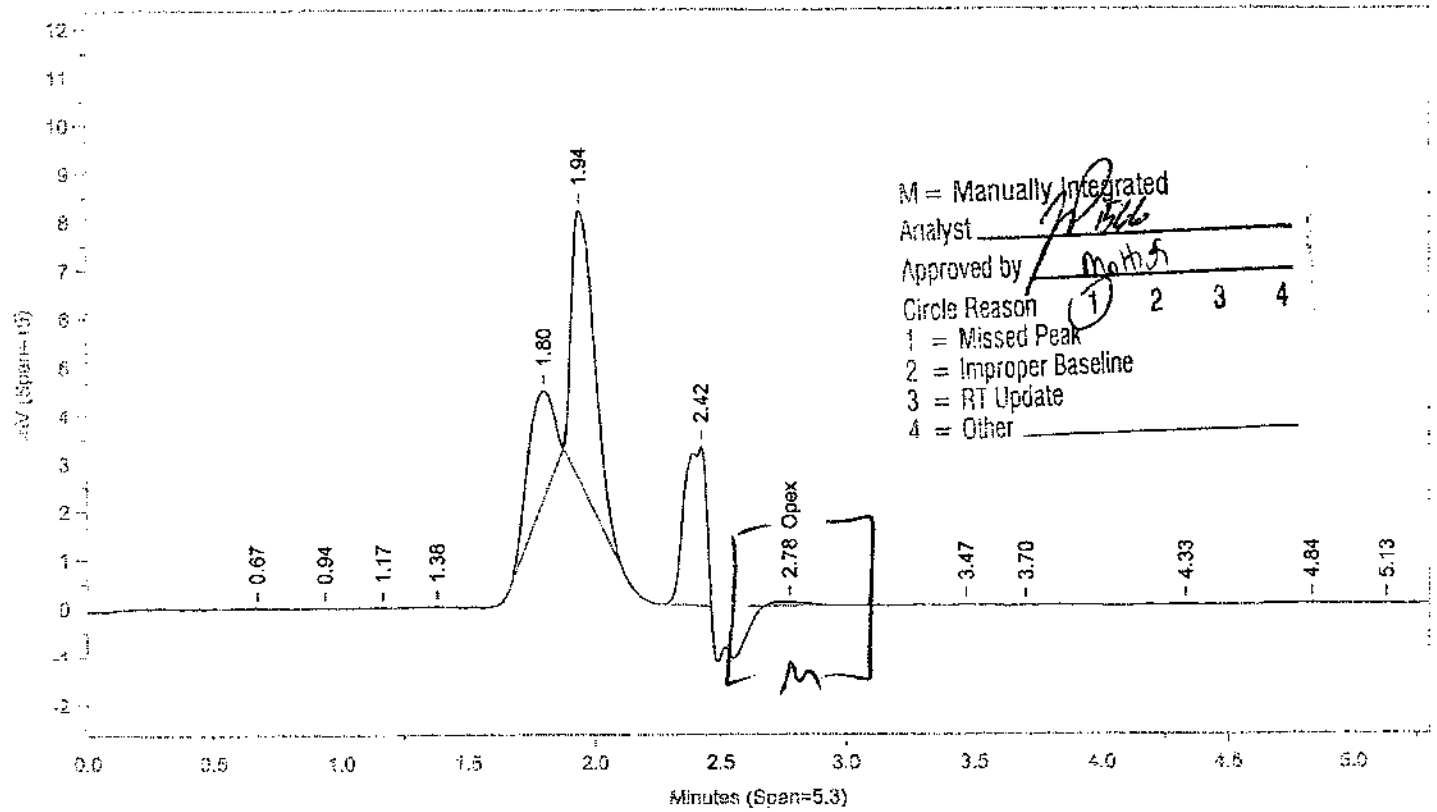
Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B

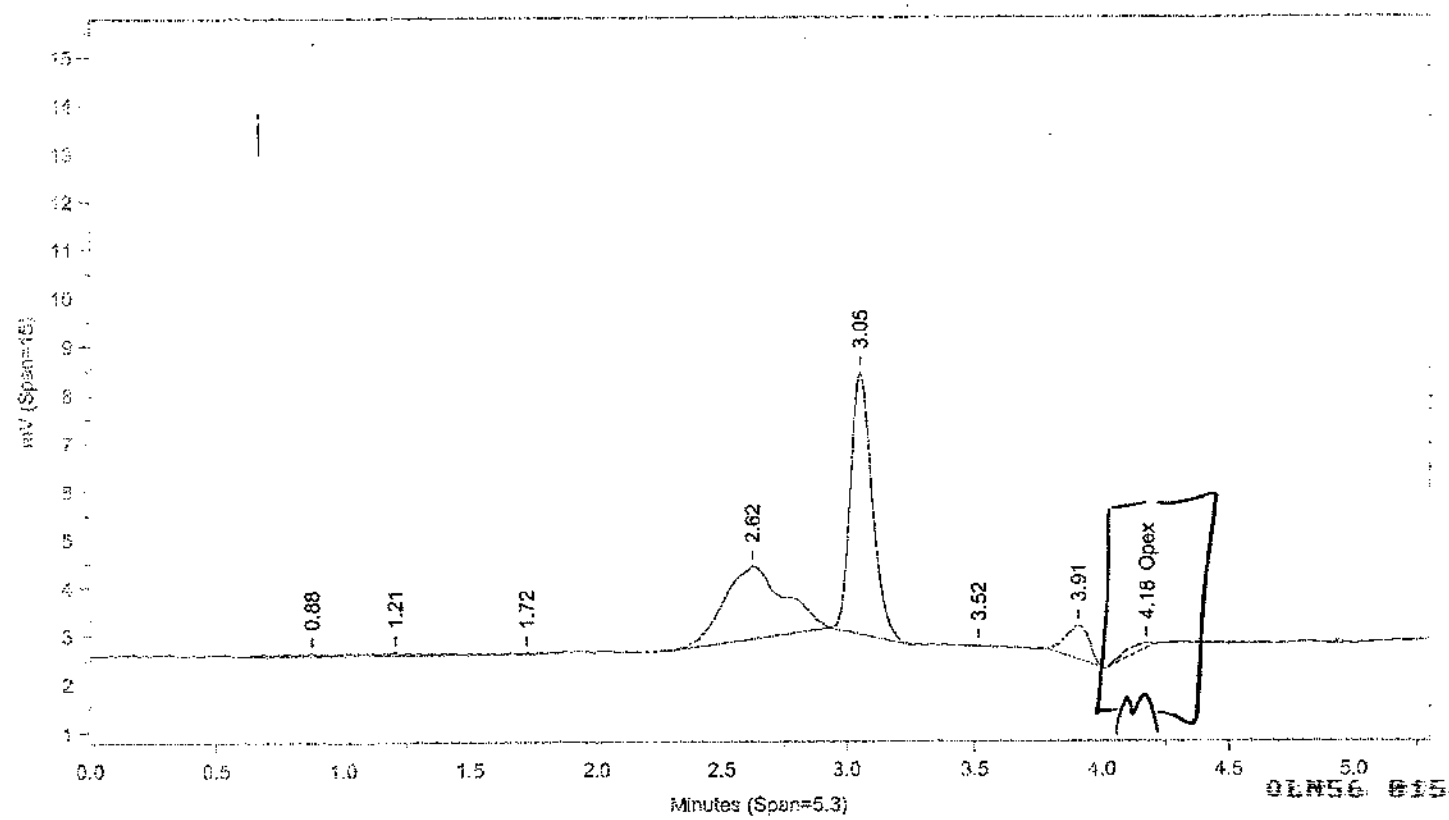
Files:
Area File: C:\CPWIN\DATA1\1X11355.29A
Area File: C:\CPWIN\DATA1\1X11355B.29A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\1X11355.CAL
Calibration File B: C:\CPWIN\DATA1\1X11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:15:48 PM
File Reported On: 12/21/2010 at 7:15:56 PM

Not Used
See Reintegration

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1X11355.29R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 6:32:27 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 6:32:27 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.775	84	16.995	Opex	4.178	99	21.658	Opex

Files:
Area File: C:\CPWIN\~Dualcha.00A
Area File: C:\CPWIN\~Dualchb.00A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\1X11355.CAL
Calibration File B: C:\CPWIN\DATA1\1X11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:41:40 PM
File Reported On: 12/21/2010 at 7:41:38 PM

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO. SW5--

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103480033A

Lab Code: Case No.: SAS No.: SDG No.: OLN56

Matrix: (soil/water) WATER Lab Sample ID: 6165074

Sample wt/vol: 10 (g/ml) ml Lab File ID: 1X11355.30R

% Moisture: Decanted: (Y/N) Date Received: 12/15/2010

Extraction: (SepF/Cont/Sonc) Direct Injection Date Extracted: 12/16/2010

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/2010

Injection Volume: 35 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
101-25-7	Opex	61	U

OLN56 2152

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6165074 SW5-- Sample ID: AA **Batchnumber: 103480033A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: OLN56 State: MA
Analyses: 02726 02727

Analysis Report (A)

Injected on	: DEC 21, 2010 18:38:20
Instrument	: CP09--X3593A
Result file	: 1X11355.30R
Calibration file	: 1X11355.CAL
Method file	: OPEX.MET

Analysis Report (B)

Injected on	: DEC 21, 2010 18:38:20
Instrument	: CP09--X3593B
Result file	: 1X11355B.30R
Calibration file	: 1X11355B.CAL
Method file	: OPEXB.MET

Peak name	Min	R.T.	Max	Height	Amount
Opex	2.52	2.69	2.72	299	60.788280

Peak name	Min	R.T.	Max	Height	Amount
Opex	4.27	4.21	4.47	253	55.454559

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Opex	A	60.788280	<100	LOD 20	J	9.18	unclear peak shape - no clear end of peak

Units: ug/l

Reviewed by: [signature] Date: 12/23/10

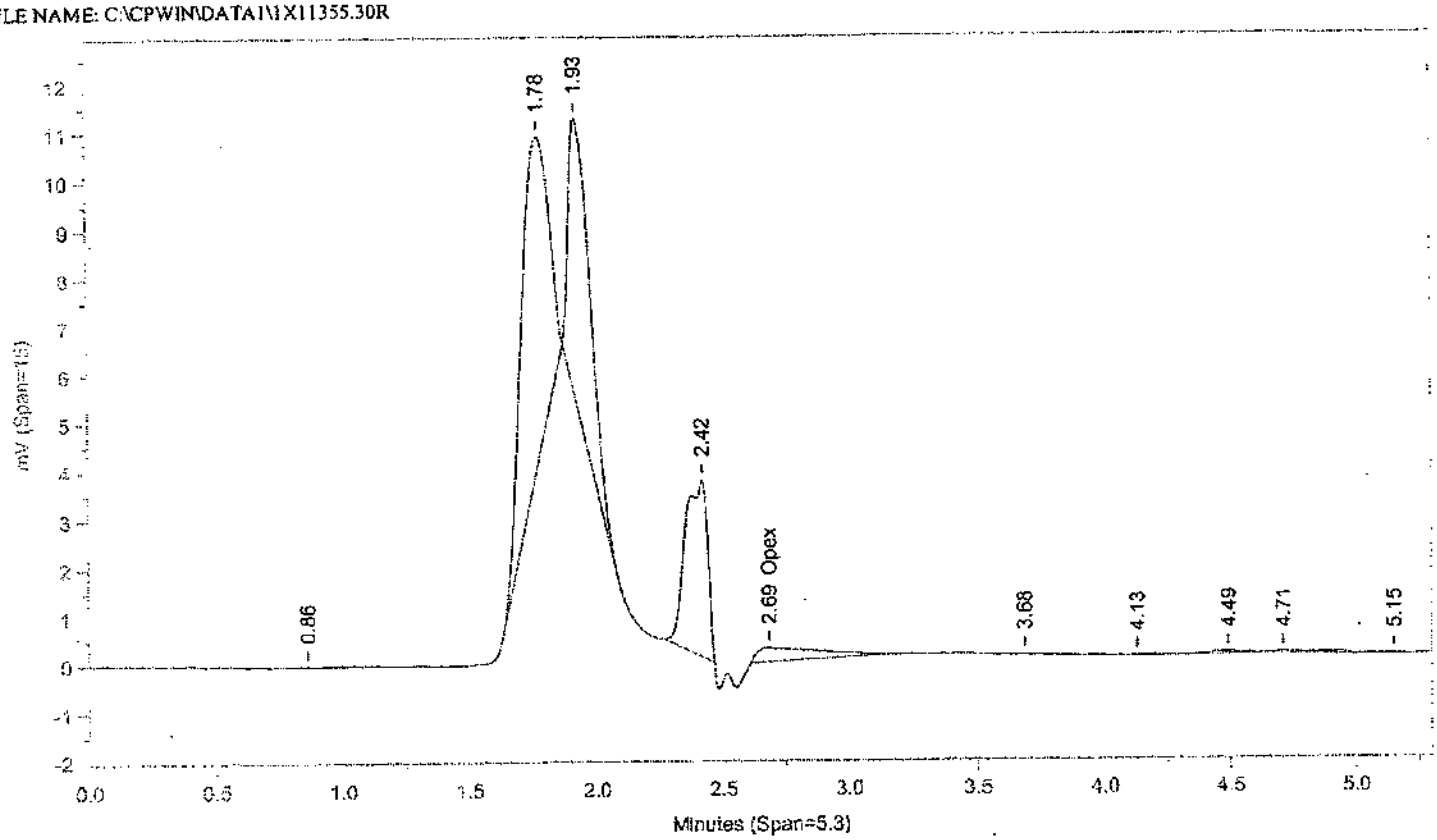
Verified by: [signature] Date: 12/23/10

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Reported

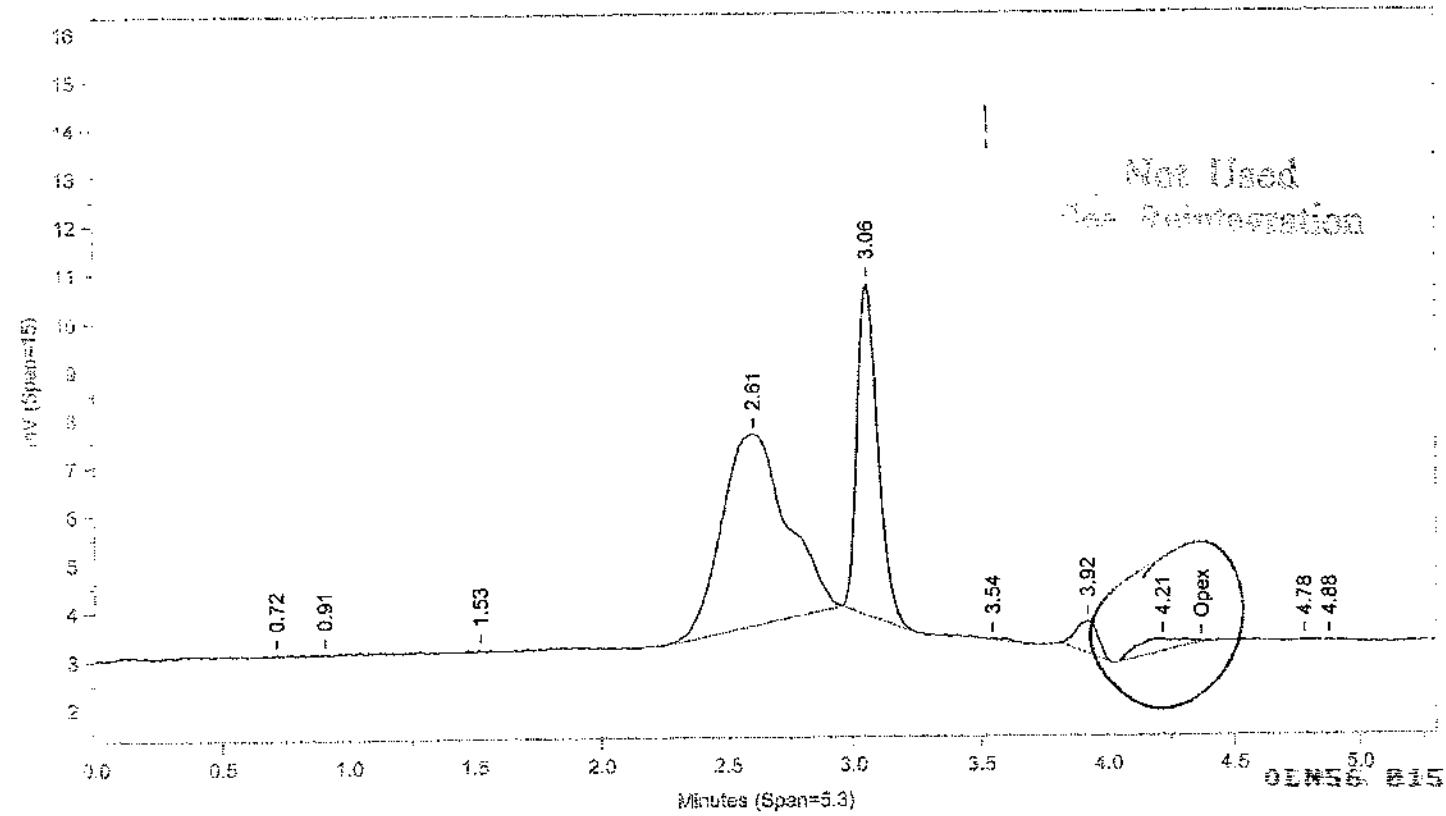
* Recovery outside QC Limits

Printed on: 12/21/10 19:52:12

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1X11355.30R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 6:38:19 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 6:38:19 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

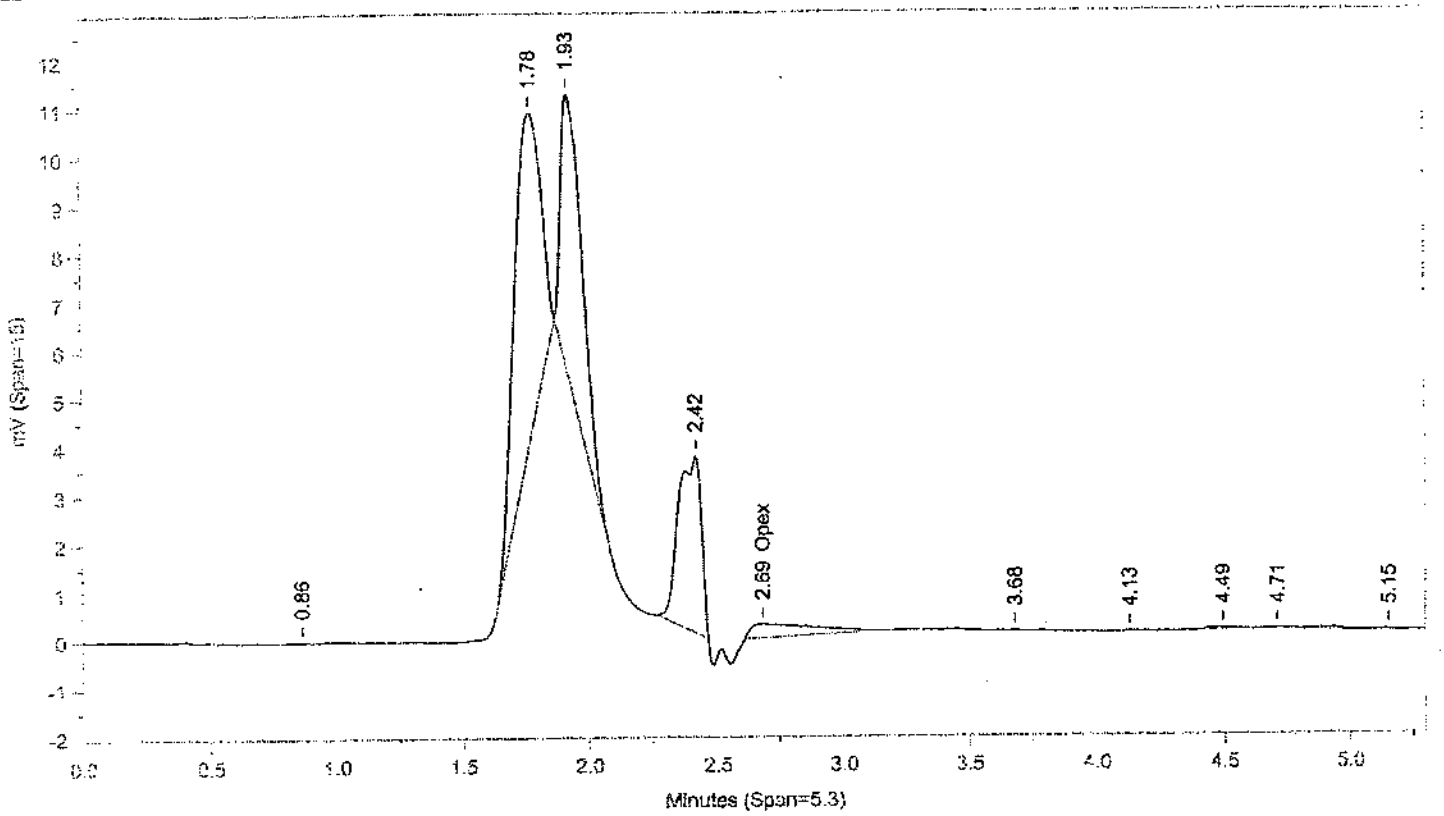
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.685	299	60.788	Opex			0	Opex

Files:
Area File: C:\CPWIN\DATA1\1X11355.30A
Area File: C:\CPWIN\DATA1\1X11355B.30A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\1X11355.CAL
Calibration File B: C:\CPWIN\DATA1\1X11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:16:08 PM
File Reported On: 12/21/2010 at 7:16:16 PM

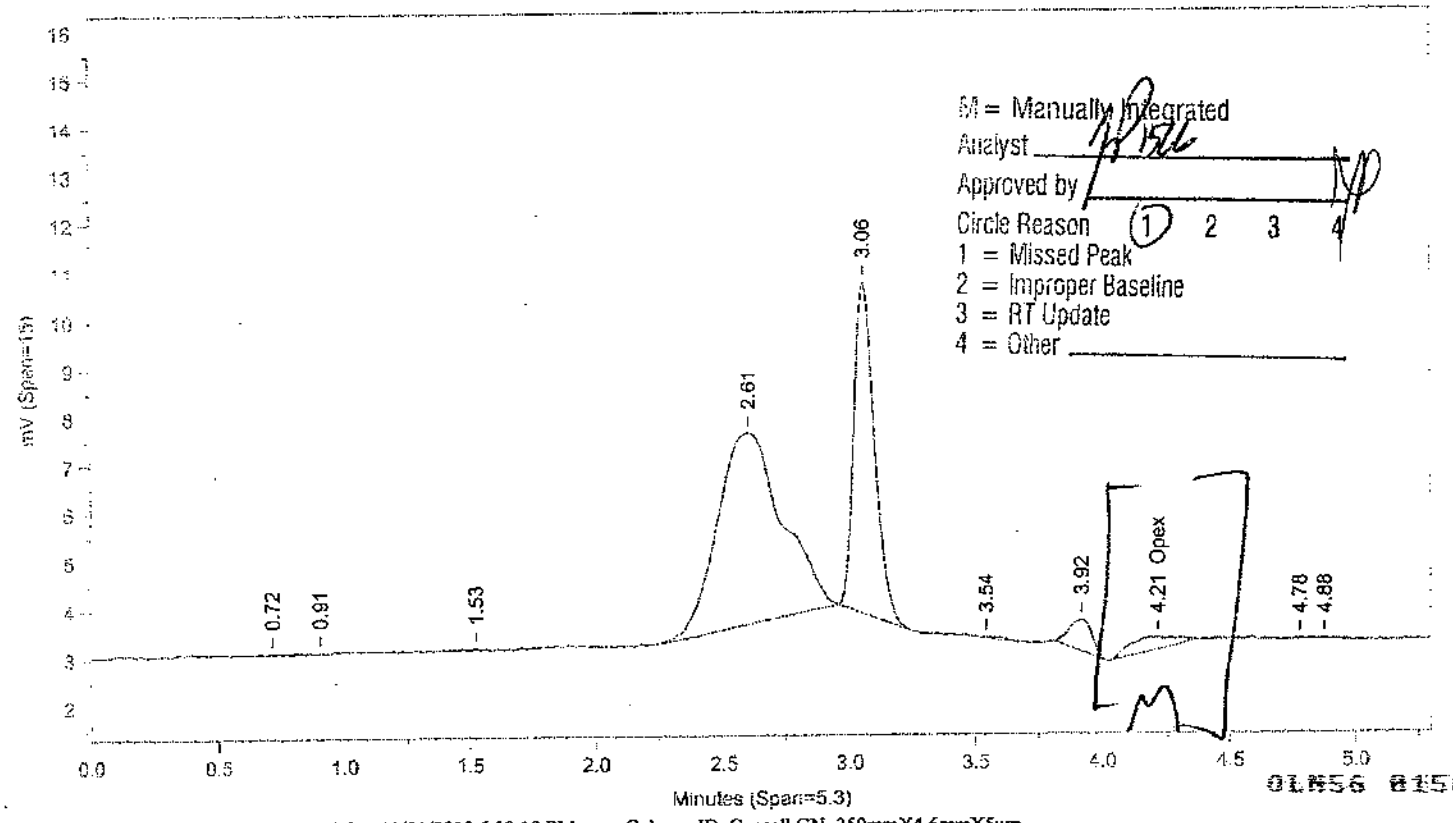
Not Used
See Reintegration

OLN56 8155

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1X11355.30R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 6:38:19 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



M = Manually Integrated
Analyst
Approved by
Circle Reason (1) 2 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other

01N56 0156

Instrument ID: CP09--X3593B Injected On: 12/21/2010 6:38:19 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.685	299	60.788	Opex	4.215	253	55.455	Opex

Files:
Area File: C:\CPWIN\~Dualcha.00A
Area File: C:\CPWIN\~Dualchb.00A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\IX11355.CAL
Calibration File B: C:\CPWIN\DATA1\IX11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:43:04 PM
File Reported On: 12/21/2010 at 7:43:03 PM

Standards Data

Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\cp9\C-Drive\CPWIN\data1\1X11355.seq

Chromatography Directory: \\cp9\C-Drive\CPWIN\data1

Method Directory: \\cp9\C-Drive\CPWIN\data1

Number of Entries: 31

	Samplename	Code	ID	FileName	Method		Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	MISC	AA	1X11355.01R		OPEX.MET	1	1	1	0	1035499999	
2	CONDITIONER	MISC	AA	1X11355.02R		OPEX.MET	1	1	1	0	1035499999	
3	CONDITIONER	MISC	AA	1X11355.03R		OPEX.MET	1	1	1	0	1035499999	
4	CONDITIONER	MISC	AA	1X11355.04R		OPEX.MET	1	1	1	0	1035499999	
5	OPEX11024D	ICAL	AA	1X11355.05R		OPEX.MET	1	1	1	1	1035499999	
6	OPEX21024D	ICAL	AA	1X11355.06R		OPEX.MET	1	1	1	2	1035499999	
7	OPEX31024D	ICAL	AA	1X11355.07R		OPEX.MET	1	1	1	3	1035499999	
8	OPEX41024D	ICAL	AA	1X11355.08R		OPEX.MET	1	1	1	4	1035499999	
9	OPEX51024D	ICAL	AA	1X11355.09R		OPEX.MET	1	1	1	5	1035499999	
10	MDOXX1024D	ICAL	AA	1X11355.10R		OPEX.MET	1	1	1	0	1035499999	
11	BLANKA 12/16/10	BLK	AA	1X11355.11R		OPEX.MET	10	10	1	0	103480033A	02726
12	LCSA 12/16/10	LCS	AA	1X11355.12R		OPEX.MET	10	10	1	0	103480033A	02726
13	LCSDA 12/16/10	LCSD	AA	1X11355.13R		OPEX.MET	10	10	1	0	103480033A	02726
14	6162682	T	AA	1X11355.14R		OPEX.MET	10	10	1	0	103480033A	02726
15	6162683	T	AA	1X11355.15R		OPEX.MET	10	10	1	0	103480033A	02726
16	6162684	T	AA	1X11355.16R		OPEX.MET	10	10	1	0	103480033A	02726
17	6162685MS	MS	AA	1X11355.17R		OPEX.MET	10	10	1	0	103480033A	02726
18	6162686MSD	MSD	AA	1X11355.18R		OPEX.MET	10	10	1	0	103480033A	02726
19	6162688	T	AA	1X11355.19R		OPEX.MET	10	10	1	0	103480033A	02726
20	6162689	T	AA	1X11355.20R		OPEX.MET	10	10	1	0	103480033A	02726
21	OPEX31024D	CCAL	DF	1X11355.21R		OPEX.MET	1	1	1	0	1035499999	
22	6162690	T	AA	1X11355.22R		OPEX.MET	10	10	1	0	103480033A	02726
23	6162691	T	AA	1X11355.23R		OPEX.MET	10	10	1	0	103480033A	02726
24	6162692	T	AA	1X11355.24R		OPEX.MET	10	10	1	0	103480033A	02726
25	6162693	T	AA	1X11355.25R		OPEX.MET	10	10	1	0	103480033A	02726
26	6162694	T	AA	1X11355.26R		OPEX.MET	10	10	1	0	103480033A	02726
27	6165071	T	AA	1X11355.27R		OPEX.MET	10	10	1	0	103480033A	02726
28	6165072	T	AA	1X11355.28R		OPEX.MET	10	10	1	0	103480033A	02726
29	6165073	T	AA	1X11355.29R		OPEX.MET	10	10	1	0	103480033A	02726
30	6165074	T	AA	1X11355.30R		OPEX.MET	10	10	1	0	103480033A	02726
31	OPEX31024D	CCAL	DG	1X11355.31R		OPEX.MET	1	1	1	0	1035499999	

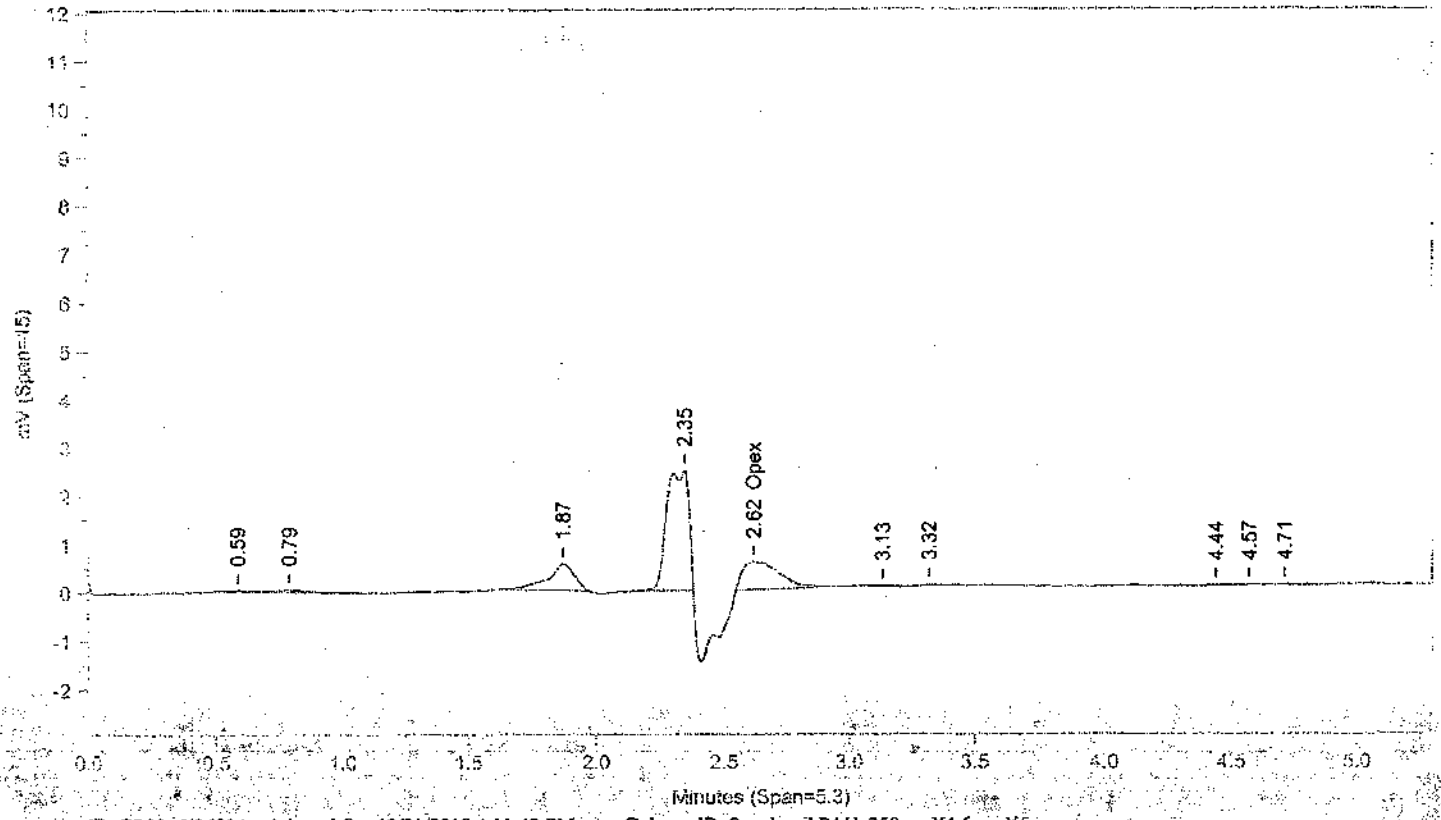
Set-up by: _____ Date: 12/21/10

12/21/2010

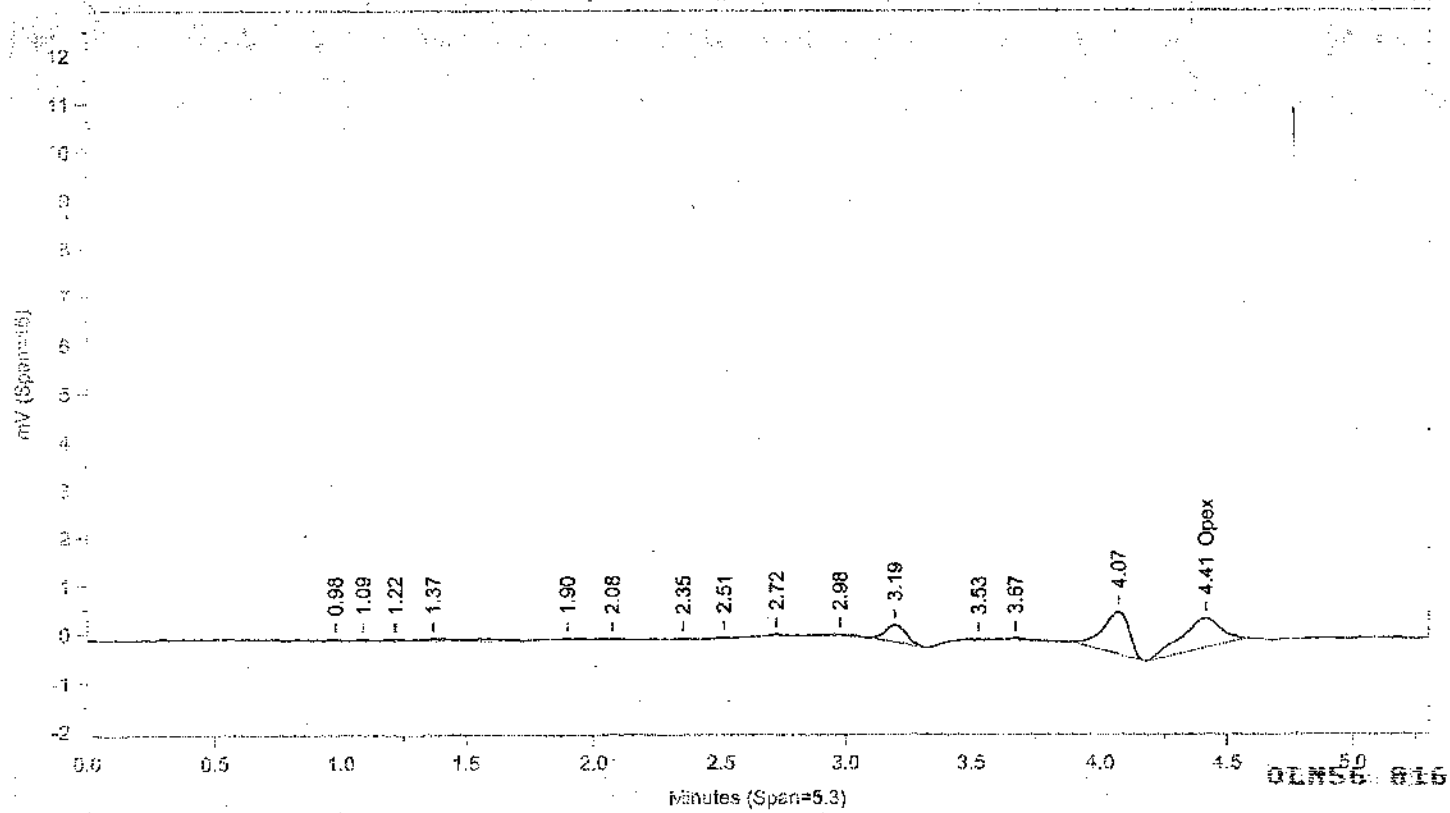
QUN56 8159

LANCASTER LABORATORIES

FILE NAME: C:\CPWIN\DATA1\IX11355.05R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 4:11:43 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 4:11:43 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

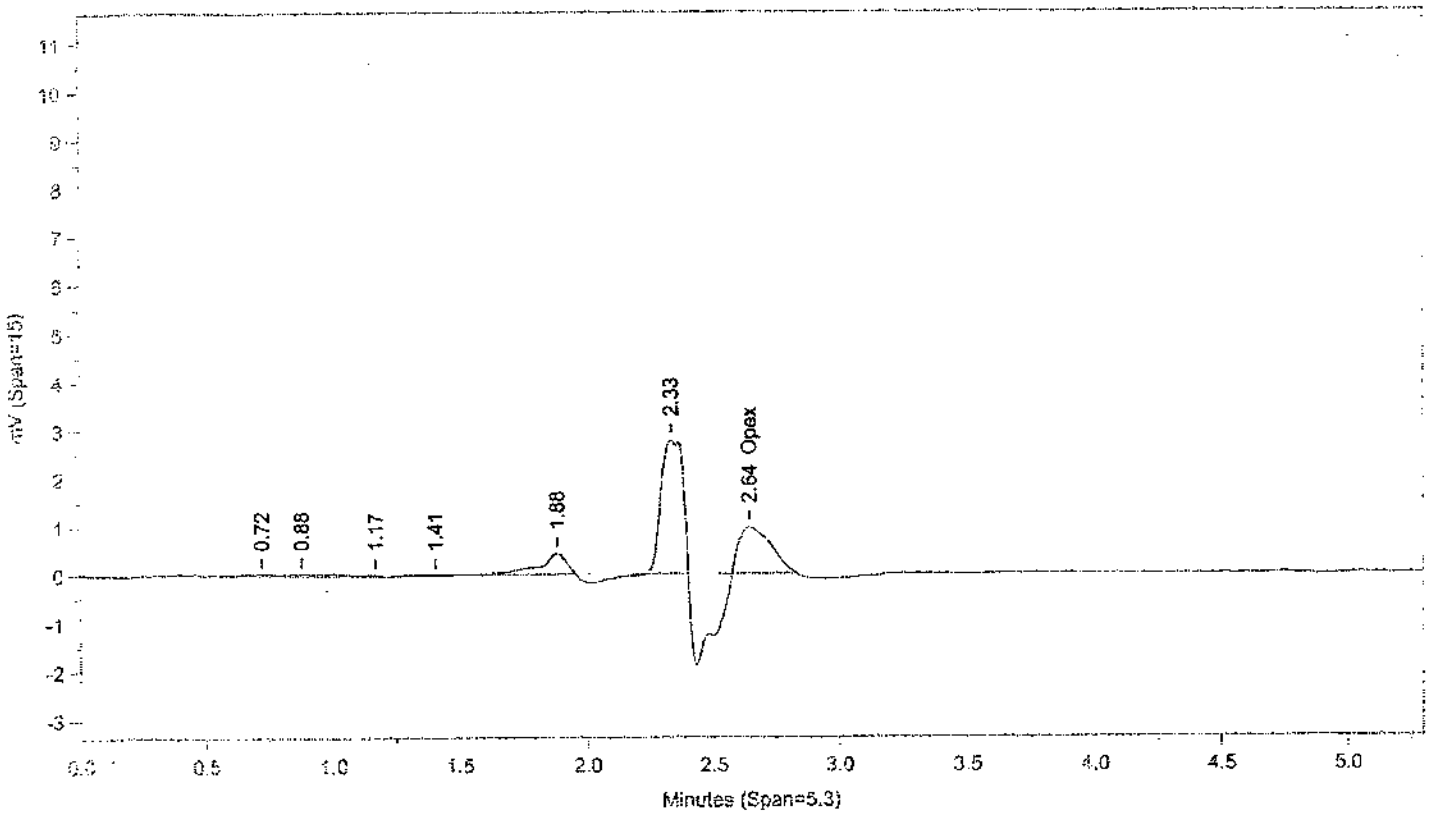
Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

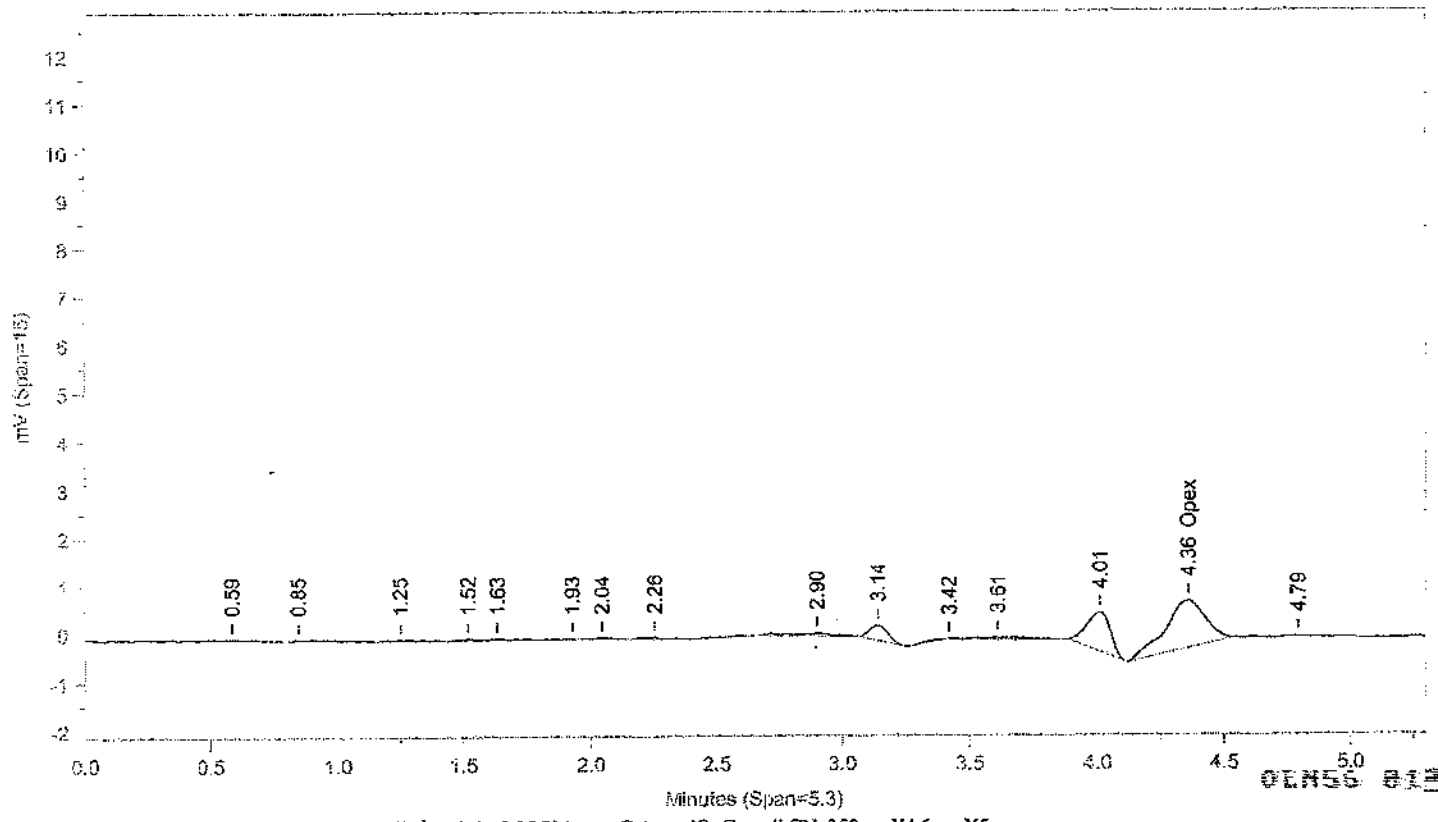
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.619	572	113.963	Opex	4.414	601	131.865	Opex

Files:
Area File: C:\CPWIN\DATA1\IX11355.05A
Area File: C:\CPWIN\DATA1\IX11355B.05A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\IX11355.CAL
Calibration File B: C:\CPWIN\DATA1\IX11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:06:00 PM
File Reported On: 12/21/2010 at 7:06:10 PM

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\IX11355.06R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 4:17:35 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 4:17:35 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

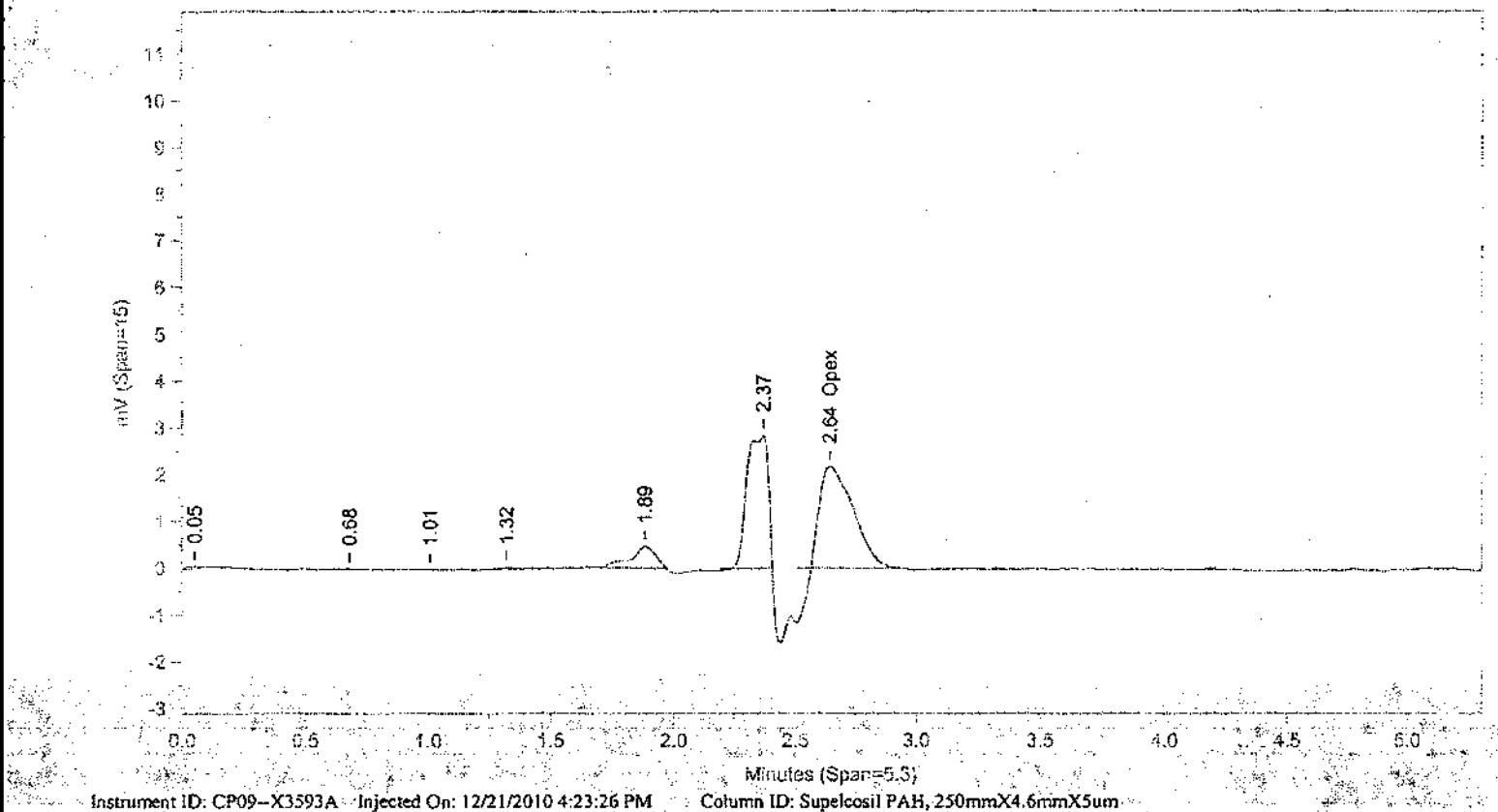
Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

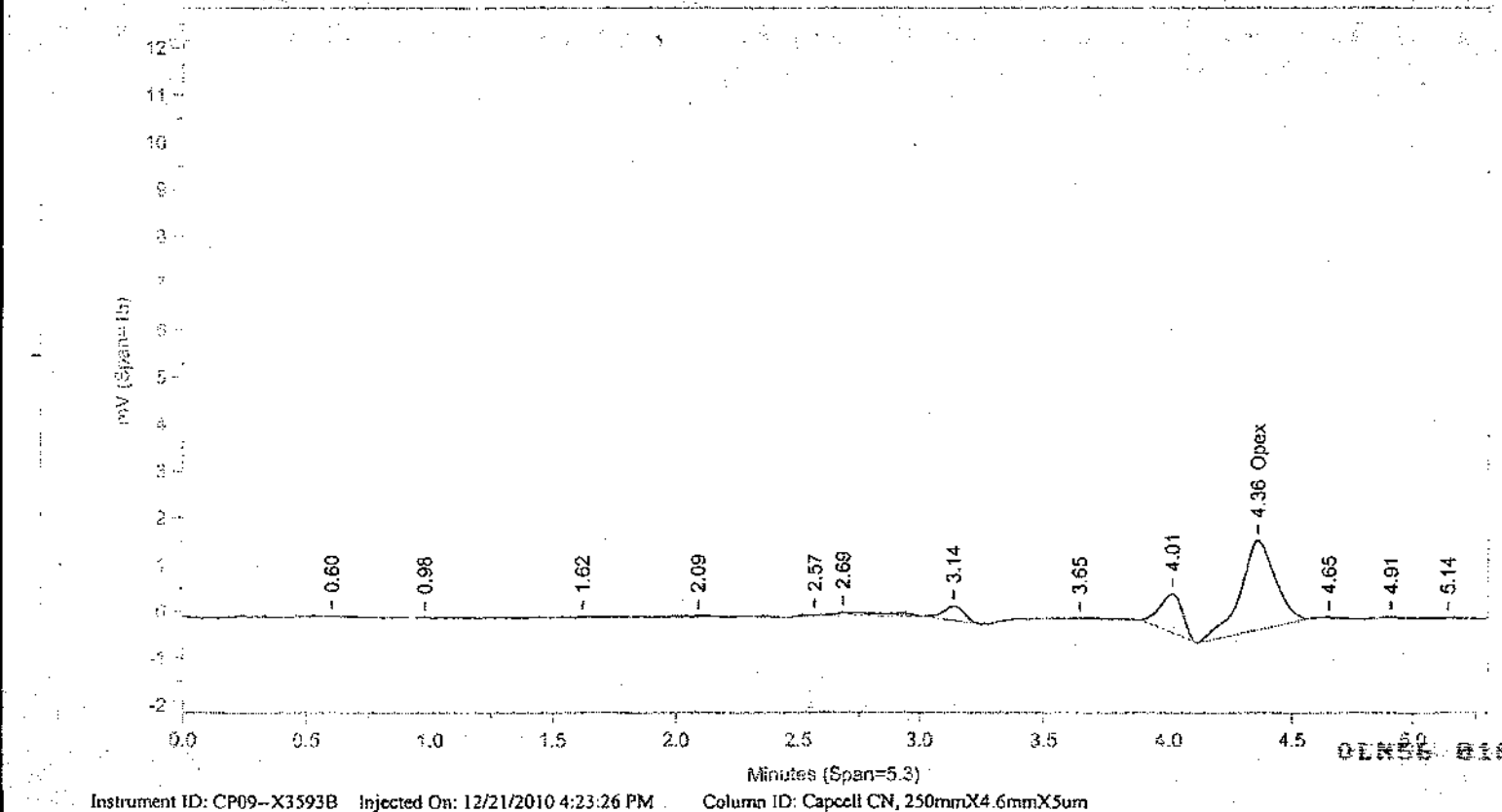
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.642	967	193.334	Opex	4.359	998	219.202	Opex

Files:
Area File: C:\CPWIN\DATA1\1X11355.06A
Area File: C:\CPWIN\DATA1\1X11355B.06A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\1X11355.CAL
Calibration File B: C:\CPWIN\DATA1\1X11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:06:24 PM
File Reported On: 12/21/2010 at 7:06:35 PM

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1X11355.07R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 4:23:26 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 4:23:26 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

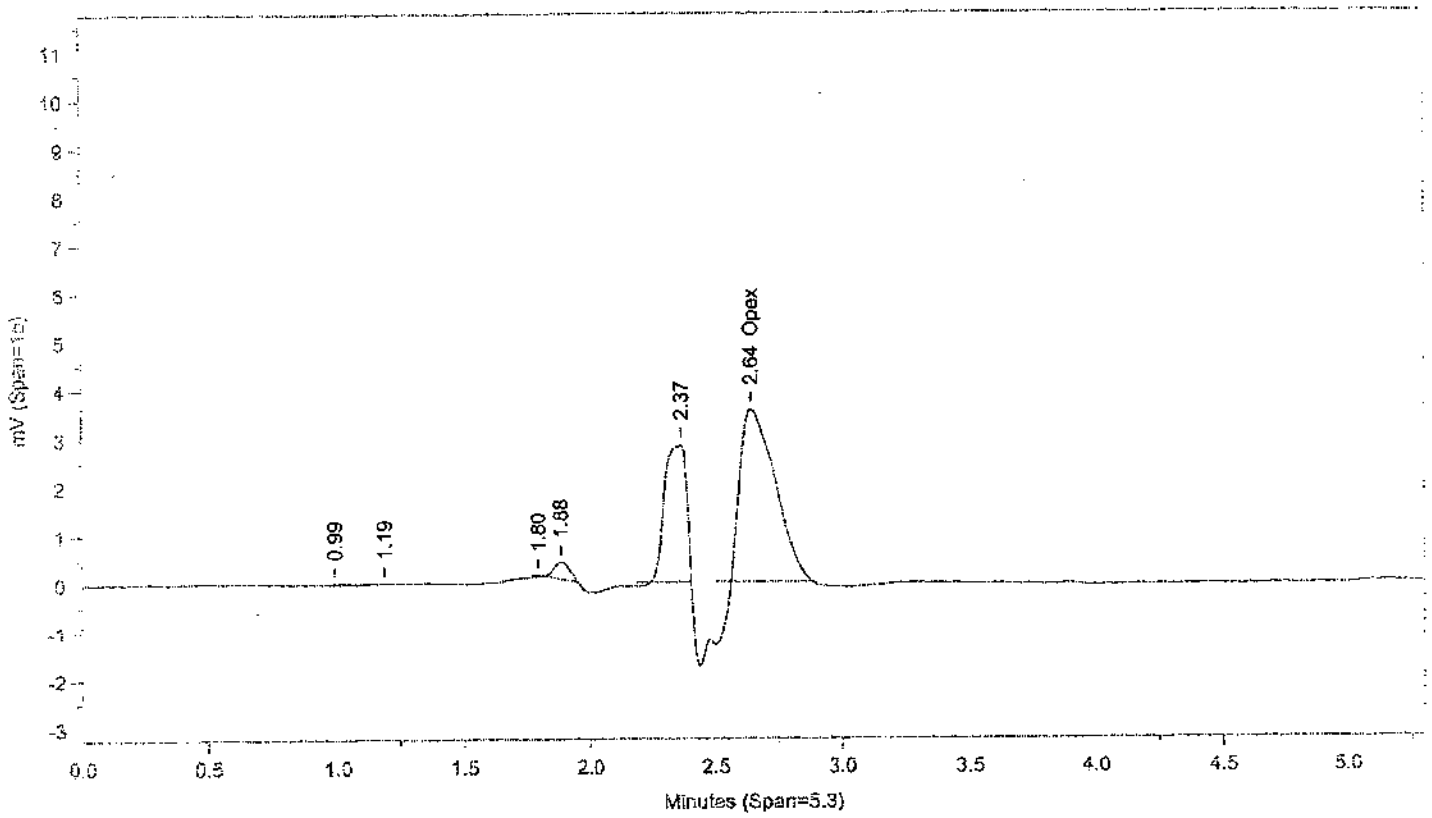
Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

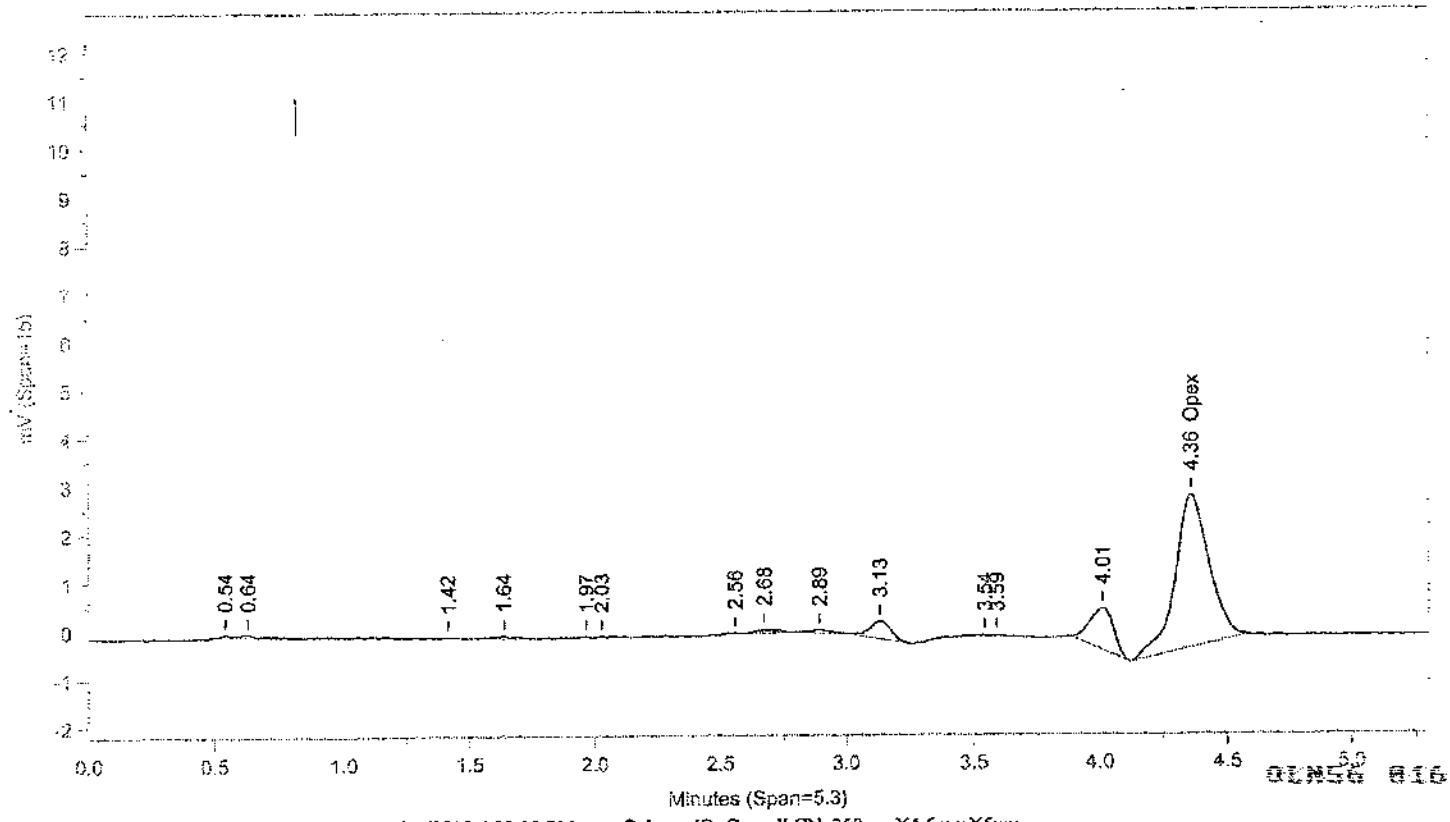
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.643	2175	438.599	Opex	4.36	1906	418.654	Opex

Files:
Area File: C:\CPWIN\DATA1\IX11355.07A
Area File: C:\CPWIN\DATA1\IX11355B.07A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\IX11355.CAL
Calibration File B: C:\CPWIN\DATA1\IX11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:06:48 PM
File Reported On: 12/21/2010 at 7:06:59 PM

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\EX11355.08R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 4:29:18 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 4:29:18 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

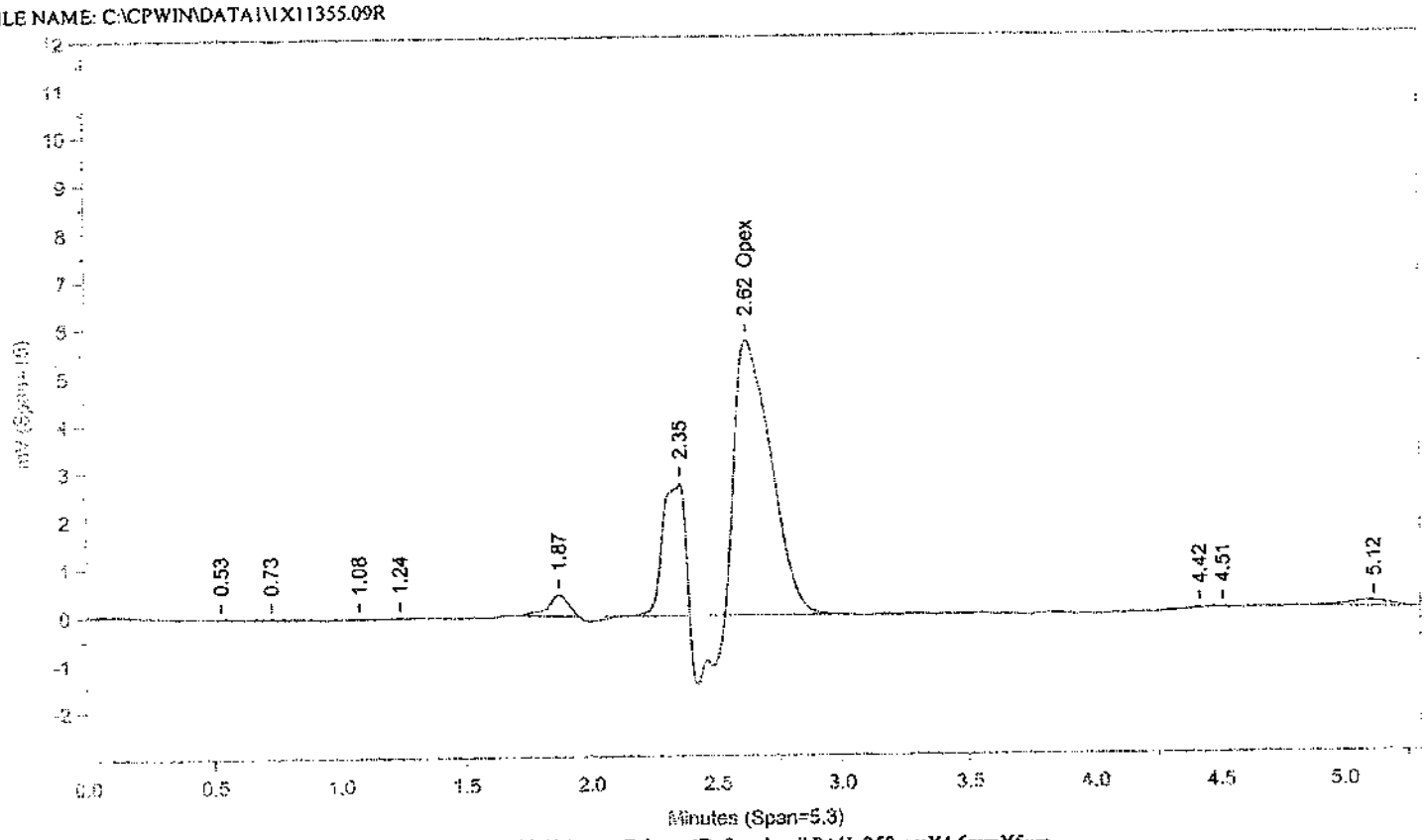
Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

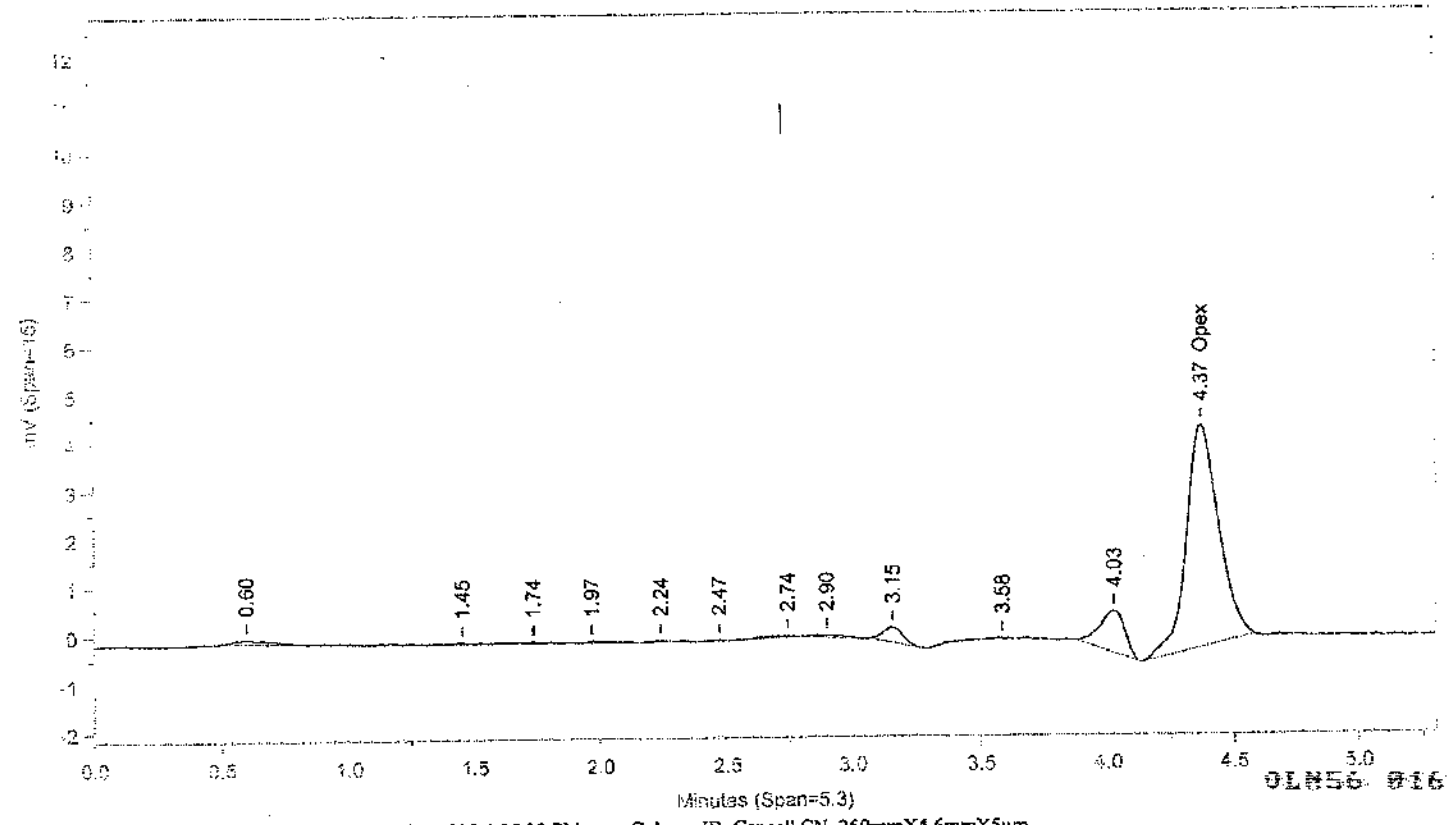
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.644	3578	724.721	Opex	4.359	3165	695.125	Opex

Files:
Area File: C:\CPWIN\DATA1\1X11355.08A
Area File: C:\CPWIN\DATA1\1X11355B.08A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\1X11355.CAL
Calibration File B: C:\CPWIN\DATA1\1X11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:07:12 PM
File Reported On: 12/21/2010 at 7:07:22 PM

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA\IX11355.09R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 4:35:09 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 4:35:09 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.622	5744	1168.551	Opex	4.371	4592	1008.305	Opex

Files:
Area File: C:\CPWIN\DATA1\1X11355.09A
Area File: C:\CPWIN\DATA1\1X11355B.09A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\1X11355.CAL
Calibration File B: C:\CPWIN\DATA1\1X11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:07:36 PM
File Reported On: 12/21/2010 at 7:07:47 PM

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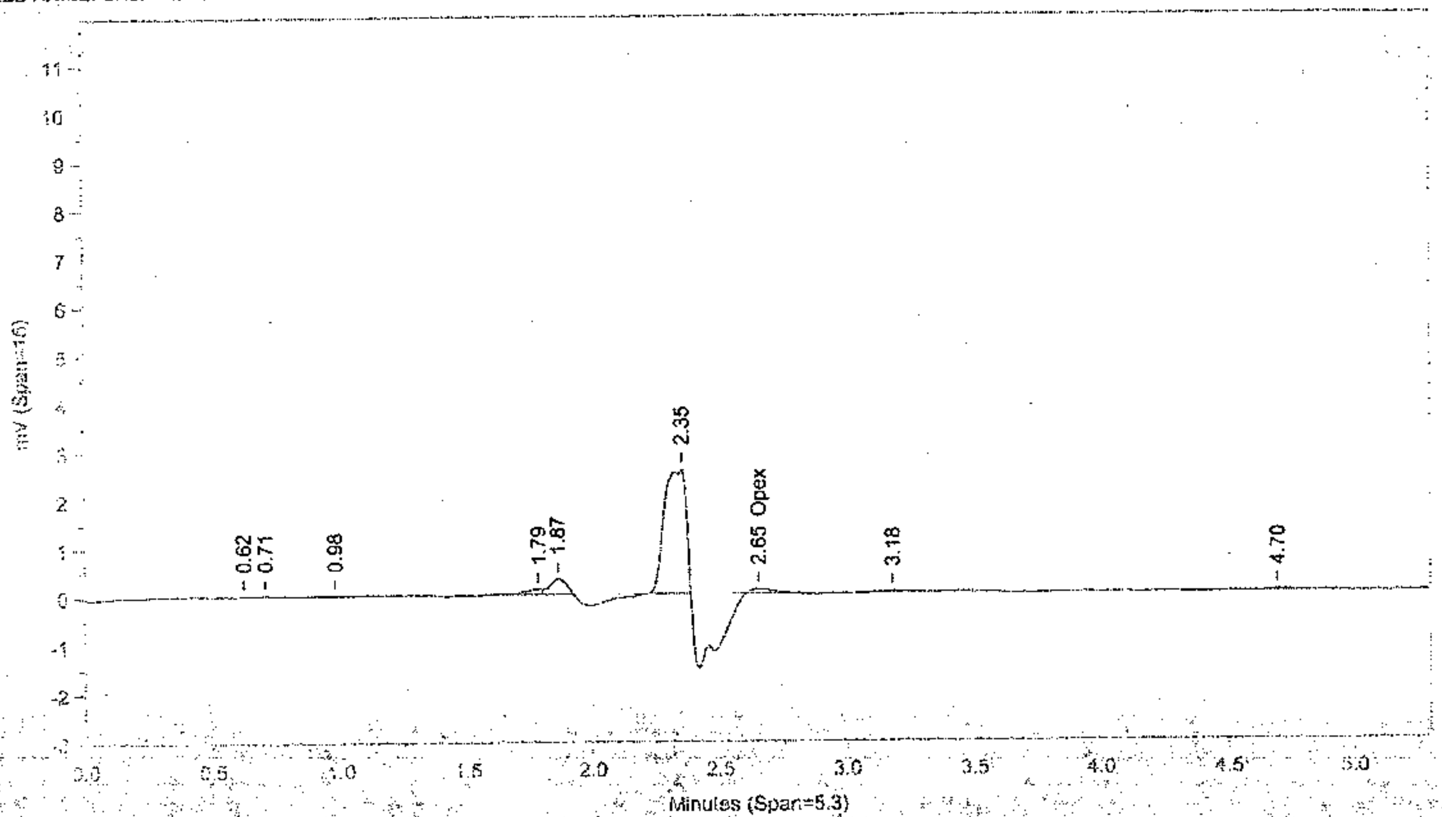
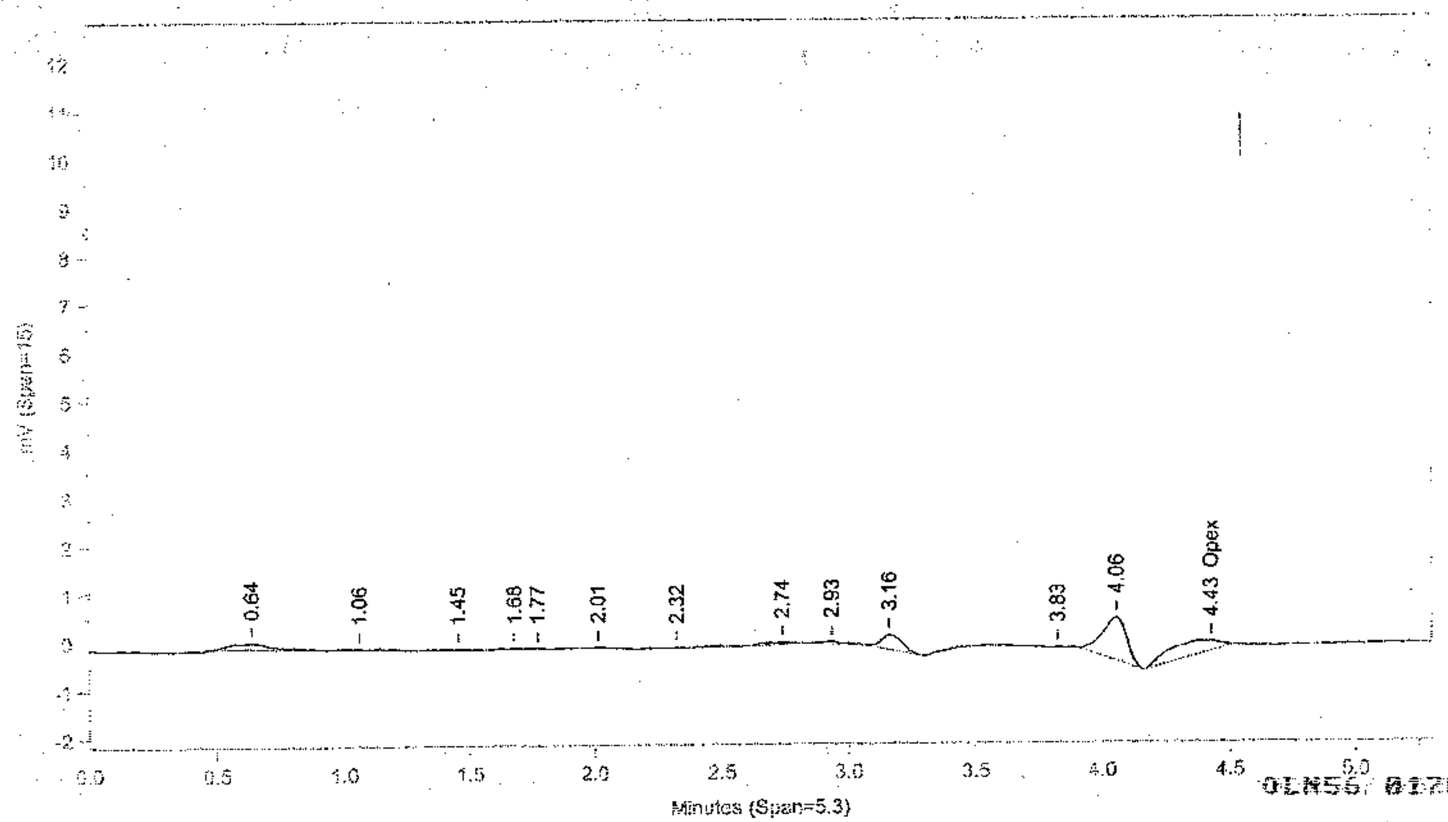
FILE NAME: C:\CPWIN\DATA1\1X11355.10R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 4:41:00 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 4:41:01 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 1
Analyst: 1566

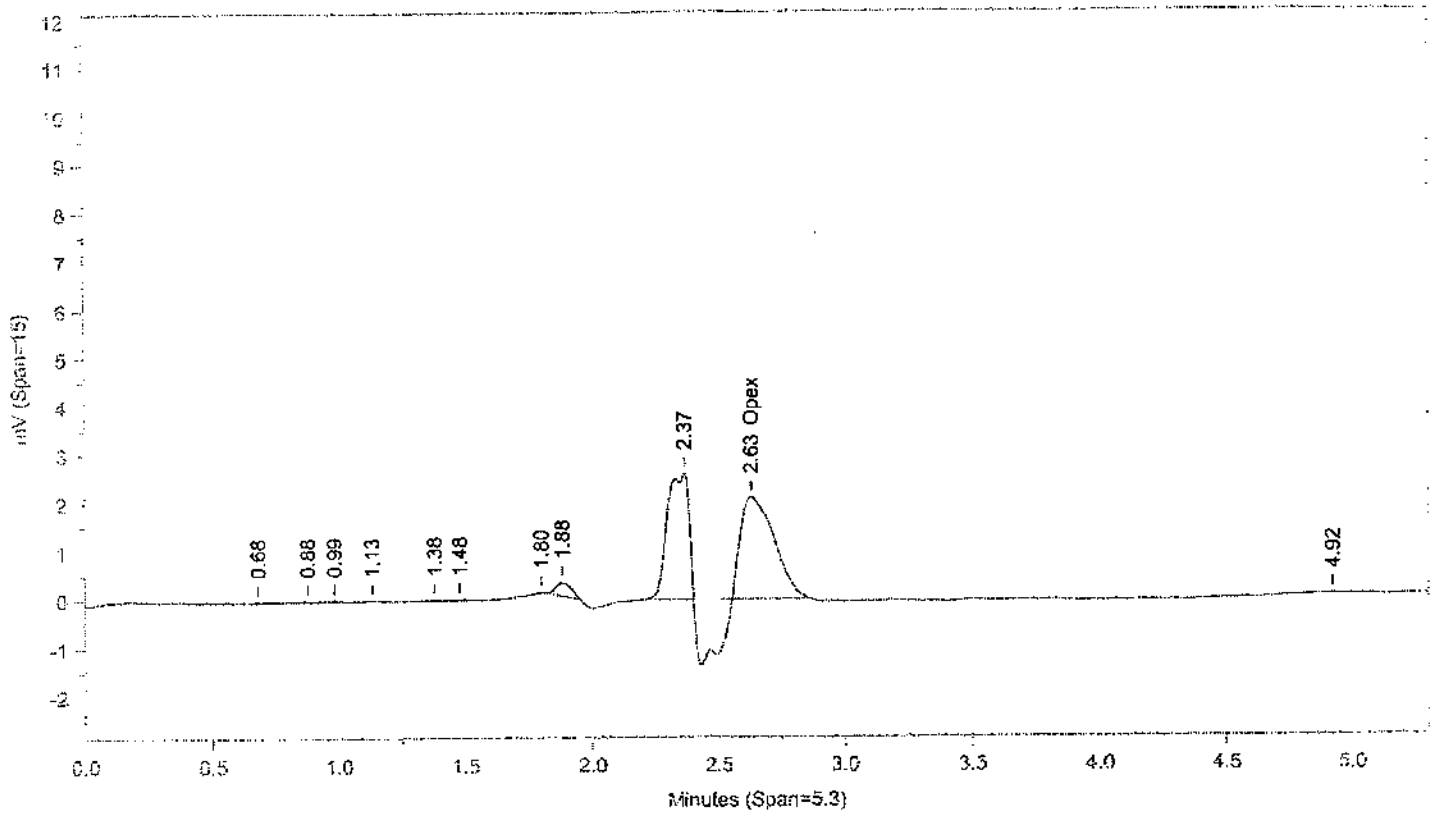
Dilution Factor: 1

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.654	89	18.059	Opex	4.427	211	46.265	Opex

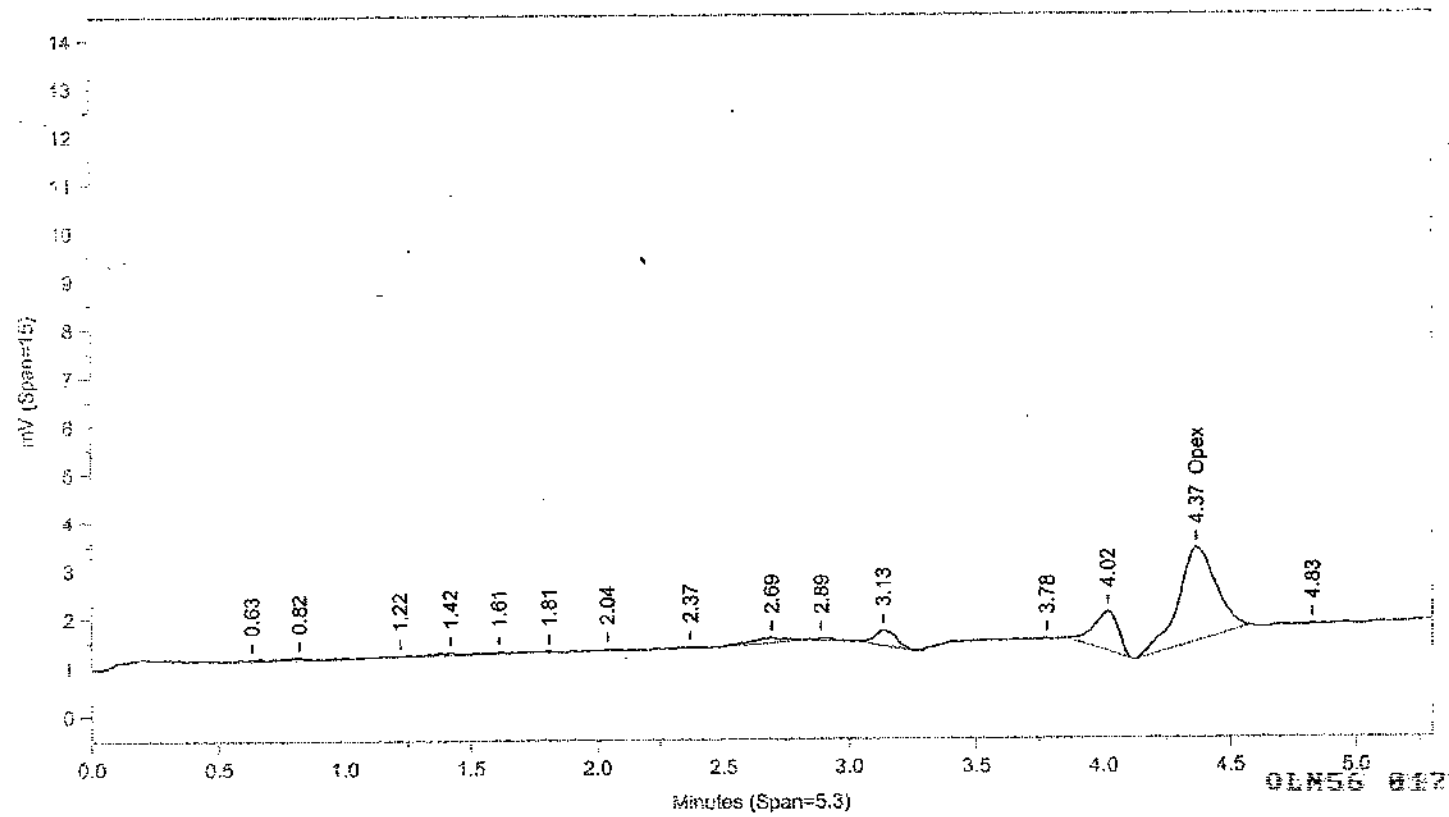
Files:
Area File: C:\CPWIN\DATA1\IX11355.10A
Area File: C:\CPWIN\DATA1\IX11355B.10A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\IX11355.CAL
Calibration File B: C:\CPWIN\DATA1\IX11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:09:26 PM
File Reported On: 12/21/2010 at 7:09:35 PM

LANCASTER LABORATORIES

FILE NAME: C:\CPWIN\DATA1\1X11355.21R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 5:45:29 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 5:45:29 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

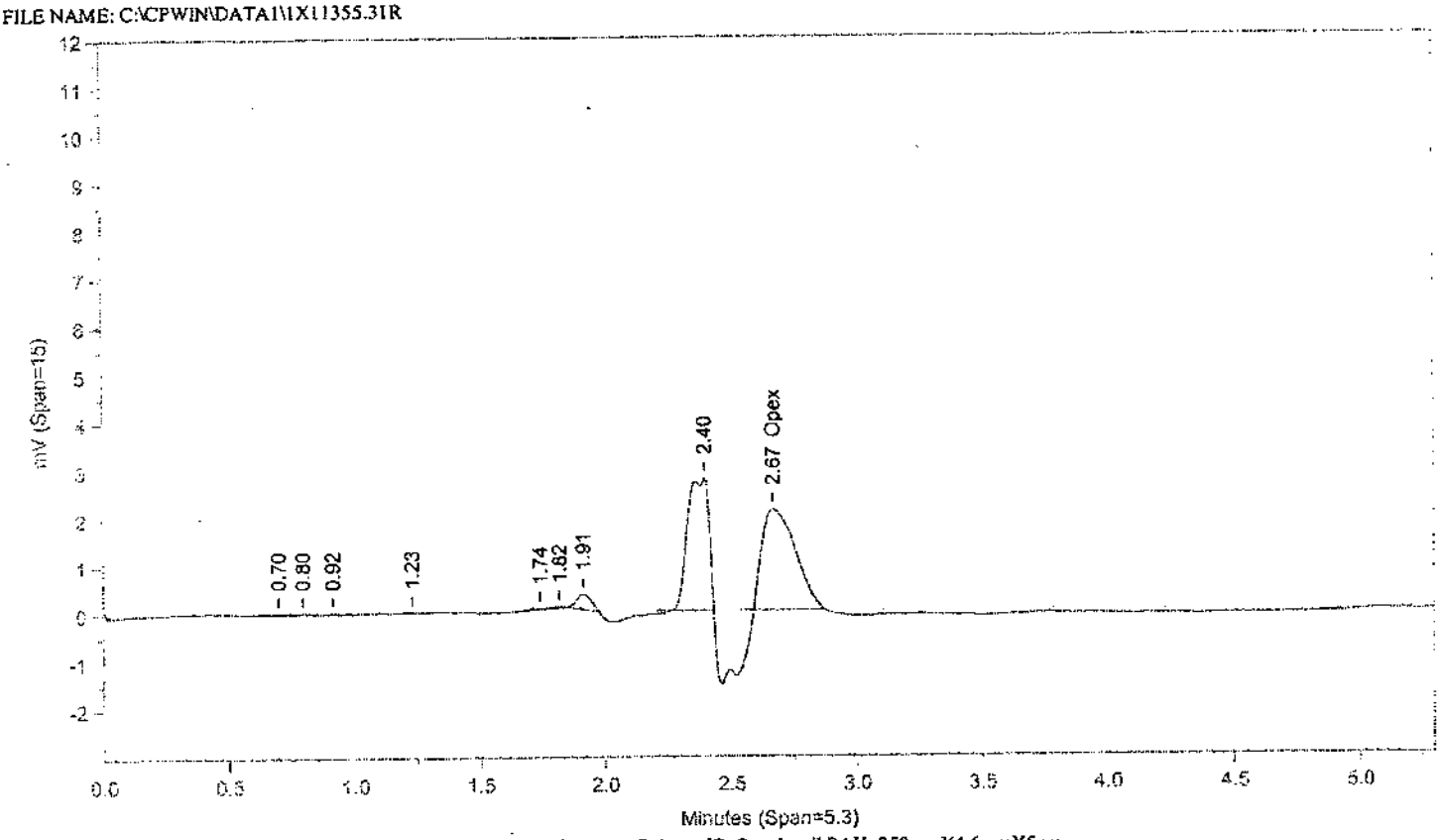
Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

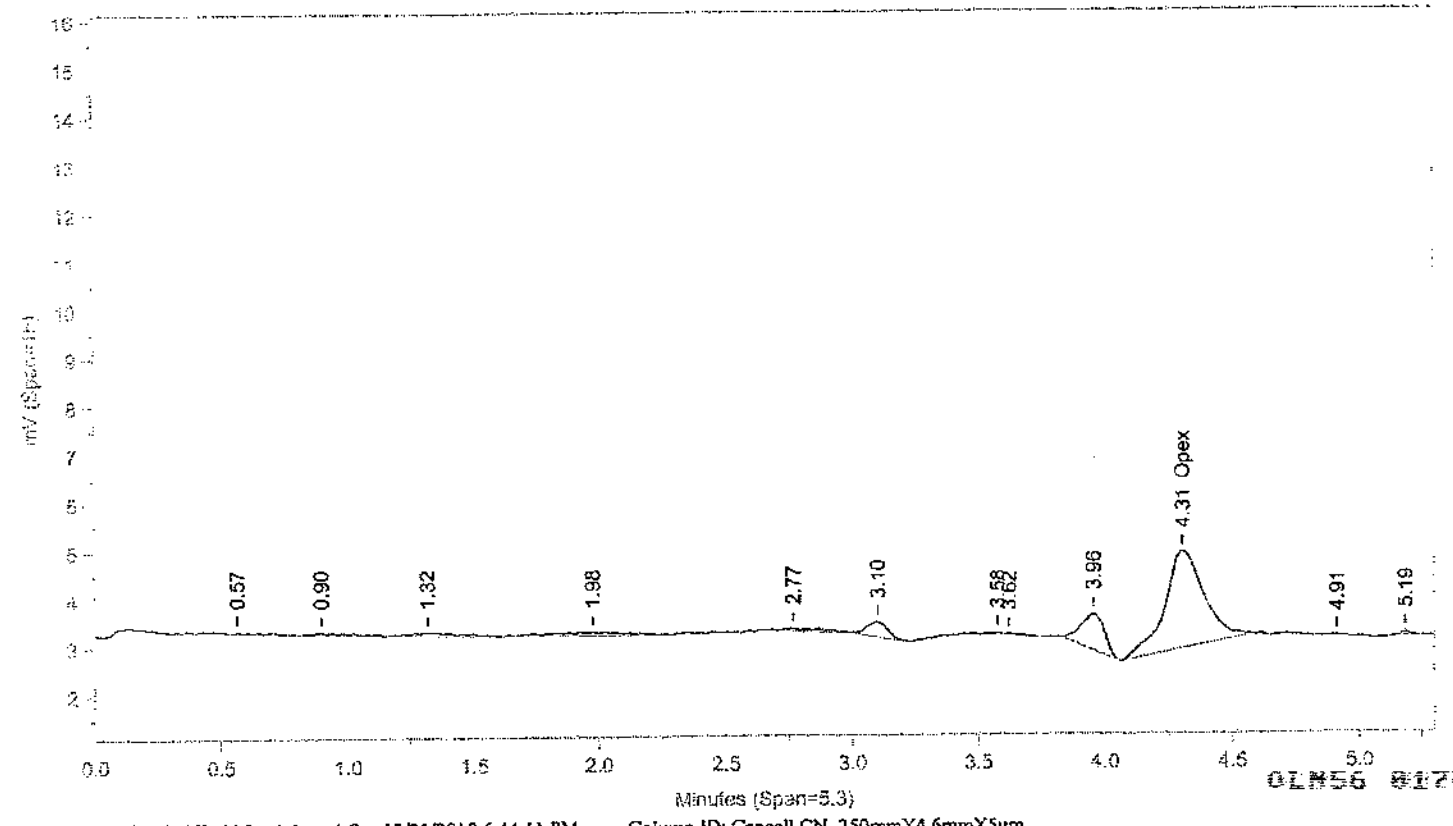
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.632	2097	426.586	Opex	4.367	1931	423.943	Opex

Files:
Area File: C:\CPWIN\DATA1\IX11355.21A
Area File: C:\CPWIN\DATA1\IX11355B.21A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\IX11355.CAL
Calibration File B: C:\CPWIN\DATA1\IX11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:13:08 PM
File Reported On: 12/21/2010 at 7:13:16 PM

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1X11355.31R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 6:44:11 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 6:44:11 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 1
Analyst: 1566

Dilution Factor: 1

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.669	2117	430.534	Opex	4.308	2006	440.453	Opex

Files:
Area File: C:\CPWIN\DATA1\IX11355.31A
Area File: C:\CPWIN\DATA1\IX11355B.31A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\IX11355.CAL
Calibration File B: C:\CPWIN\DATA1\IX11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:16:28 PM
File Reported On: 12/21/2010 at 7:16:37 PM

Raw QC Data

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO. PBLK33348

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103480033A

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: BLANKA

Sample wt/vol: 10 (g/ml) ml Lab File ID: 1X11355.11R

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) Direct Injection Date Extracted: 12/16/2010

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/2010

Injection Volume: 35 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
101-25-7	Opex	20	U

OLN56 8177

Lancaster Laboratories-Single Component Data Summary

Sample Name: BLANKA 12/16/10 PBLK33348 Sample ID: AA **Batchnumber: 103480033A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: State:
Analyses: 02726 02727

Analysis Report (A)

Injected on	: DEC 21, 2010 16:46:53
Instrument	: CP09--X3593A
Result file	: 1X11355.11R
Calibration file	: 1X11355.CAL
Method file	: OPEX.MET

Analysis Report (B)

Injected on	: DEC 21, 2010 16:46:53
Instrument	: CP09--X3593B
Result file	: 1X11355B.11R
Calibration file	: 1X11355B.CAL
Method file	: OPEXB.MET

Peak name	Min	R.T.	Max	Height	Amount
Opex	2.52	2.69	2.72	122	24.776899

Peak name	Min	R.T.	Max	Height	Amount
Opex	4.27	4.32	4.47	134	29.517756

LMOL

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Opex	B	29.517756	<100	< 20	J	17.46	not a peak

Units: ug/l

Reviewed by: _____ Date: 12/23/10

Verified by: _____ Date: 12/28/10

%Difference = High - Low Amount divided by the Average times 100

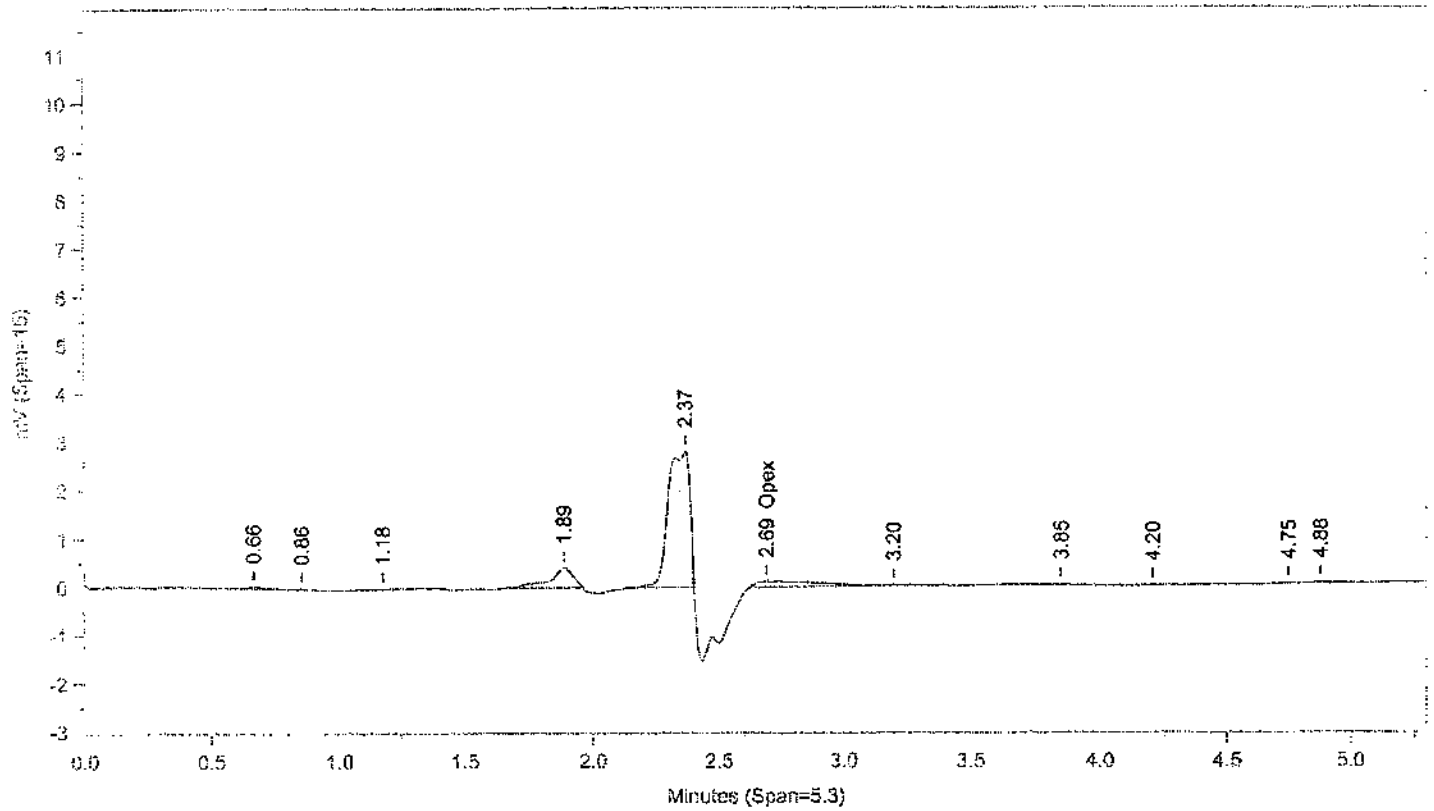
Higher Amount Found

01456 0178

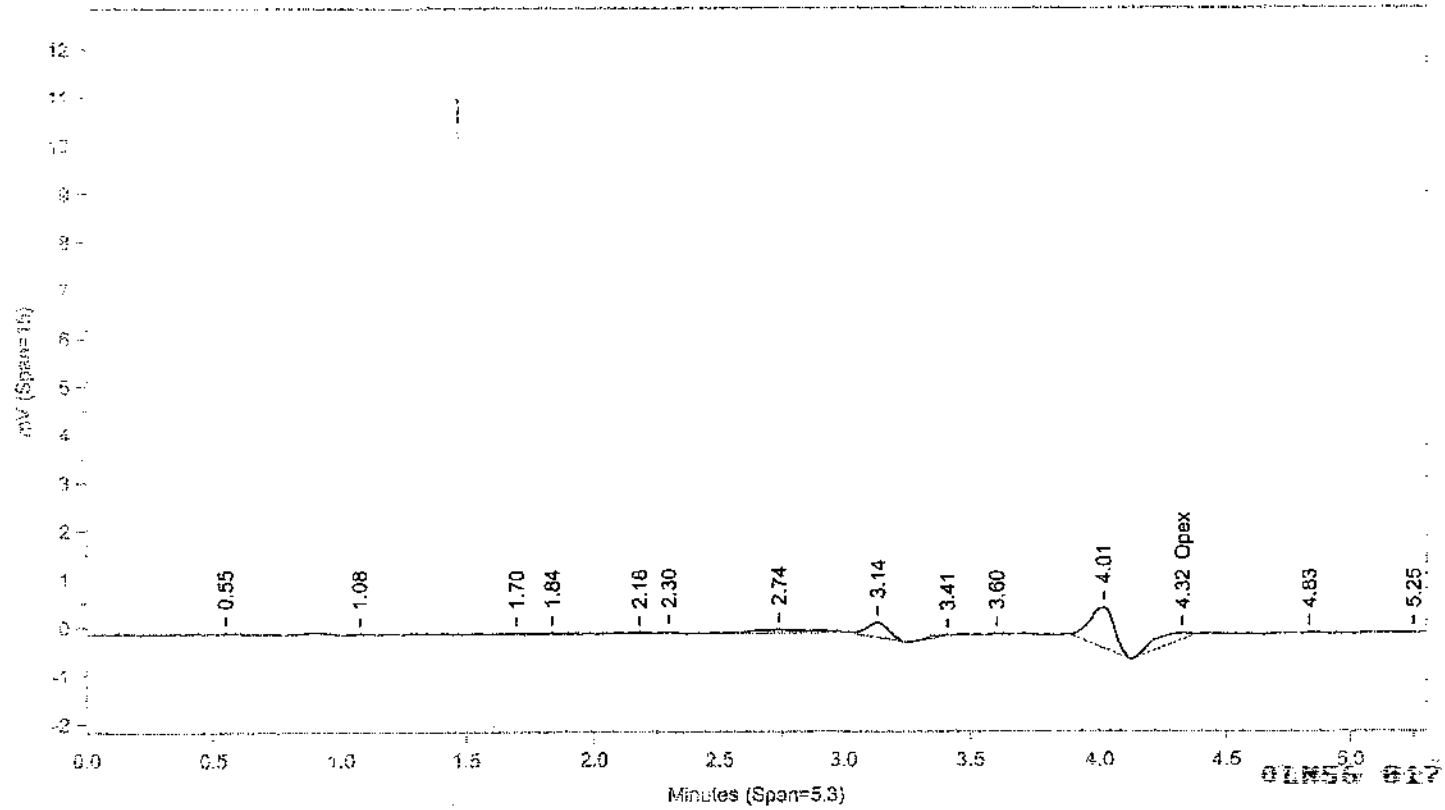
* Recovery outside QC Limits

Printed on: 12/21/10 19:46:24

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\IX11355.11R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 4:46:52 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 4:46:52 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.691	122	24.777	Opex	4.324	134	29.518	Opex

Files:
Area File: C:\CPWIN\DATA1\1X11355.11A
Area File: C:\CPWIN\DATA1\1X11355B.11A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\1X11355.CAL
Calibration File B: C:\CPWIN\DATA1\1X11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:09:46 PM
File Reported On: 12/21/2010 at 7:09:55 PM

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO. LCS33348

Lab Name: Lancaster Laboratories **Contract:** **Batchnumber:** 103480033A

Lab Code: **Case No.:** **SAS No.:** **SDG No.:**

Matrix: (soil/water) WATER **Lab Sample ID:** LCSA

Sample wt/vol: 10 (g/ml) ml **Lab File ID:** 1X11355.12R

% Moisture: **Decanted: (Y/N)** **Date Received:**

Extraction: (SepF/Cont/Sonc) Direct Injection **Date Extracted:** 12/16/2010

Concentrated Extract Volume: 10000 (uL) **Date Analyzed:** 12/21/2010

Injection Volume: 35 (uL) **Dilution Factor:** 1

GPC Cleanup: (Y/N) N **pH:** **Sulfur Cleanup: (Y/N)** N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
101-25-7	Opex	770	

GLN56 8181

Lancaster Laboratories-Single Component Data Summary

Sample Name: **LCSA** 12/16/10 LCS33348 Sample ID: AA **Batchnumber: 103480033A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: State:
Analyses: 02726 02727

Analysis Report (A)

Injected on : DEC 21, 2010 16:52:45
Instrument : CP09--X3593A
Result file : 1X11355.12R
Calibration file : 1X11355.CAL
Method file : OPEX.MET
%SSR(Opex) :

Peak name	Min	R.T.	Max	Height	Amount
Opex	2.52	2.64	2.72	3796	771.952576

Analysis Report (B)

Injected on : DEC 21, 2010 16:52:45
Instrument : CP09--X3593B
Result file : 1X11355B.12R
Calibration file : 1X11355B.CAL
Method file : OPEXB.MET
%SSR(Opex) :

Peak name	Min	R.T.	Max	Height	Amount
Opex	4.27	4.36	4.47	3127	686.574463

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Opex	A	771.952576	100	20		11.71	

Units: ug/l

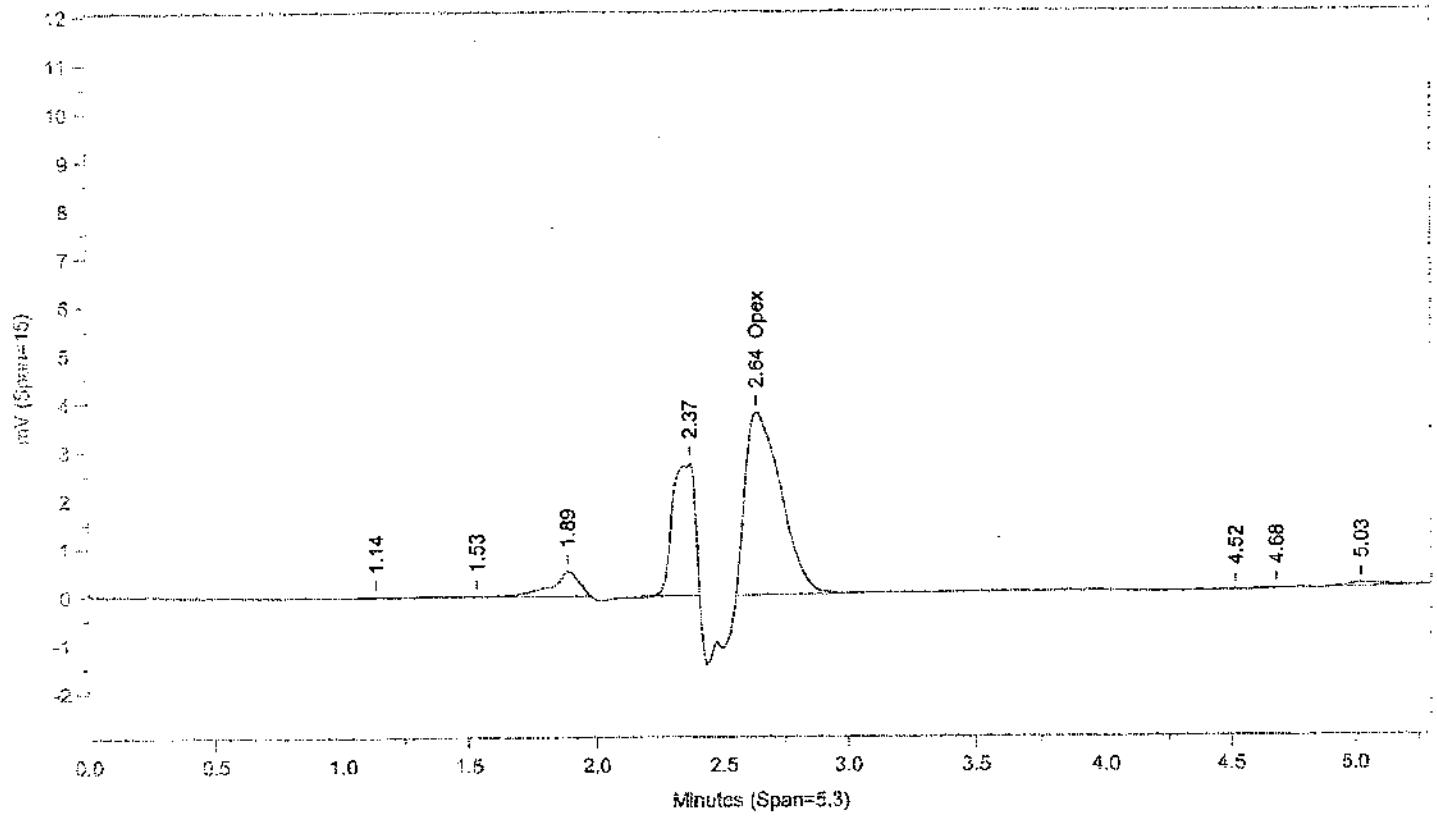
Reviewed by: 1566 Date: 12/23/10
Verified by: Date:

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found

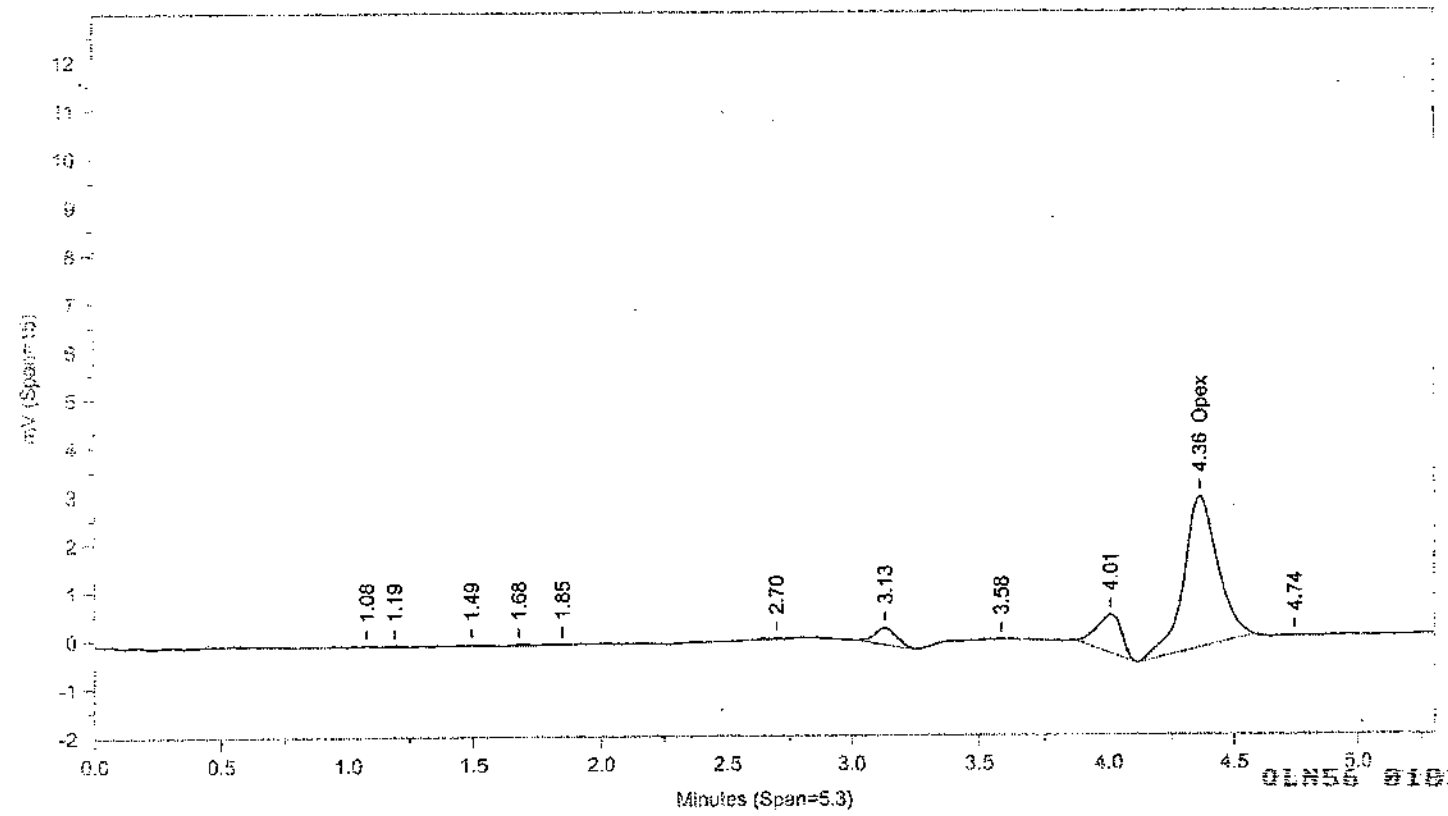
* Recovery outside QC Limits

Printed on: 12/21/10 19:46:43

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\LX11355.12R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 4:52:44 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 4:52:44 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.636	3796	771.953	Opex	4.362	3127	686.574	Opex

Files:
Area File: C:\CPWIN\DATA1\1X11355.12A
Area File: C:\CPWIN\DATA1\1X11355B.12A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\1X11355.CAL
Calibration File B: C:\CPWIN\DATA1\1X11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:10:06 PM
File Reported On: 12/21/2010 at 7:10:15 PM

1D

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO. LCSD33348

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103480033A

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: LCSDA

Sample wt/vol: 10 (g/ml) ml Lab File ID: 1X11355.13R

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) Direct Injection Date Extracted: 12/16/2010

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/2010

Injection Volume: 35 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
101-25-7	Opex	780	

01N56 0185

Lancaster Laboratories-Single Component Data Summary

Sample Name: **LCSDA** 12/16/10 LCSD33348 Sample ID: AA **Batchnumber: 103480033A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: State:
Analyses: 02726 02727

Analysis Report (A)

Injected on : DEC 21, 2010 16:58:36
Instrument : CP09--X3593A
Result file : 1X11355.13R
Calibration file : 1X11355.CAL
Method file : OPEX.MET
%SSR(Opex) :

Peak name	Min	R.T.	Max	Height	Amount
Opex	2.52	2.64	2.72	3844	781.742798

Analysis Report (B)

Injected on : DEC 21, 2010 16:58:36
Instrument : CP09--X3593B
Result file : 1X11355B.13R
Calibration file : 1X11355B.CAL
Method file : OPEXB.MET
%SSR(Opex) :

Peak name	Min	R.T.	Max	Height	Amount
Opex	4.27	4.36	4.47	3241	711.626465

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Opex	A	781.742798	100	20		9.39	

Units: ug/l

Reviewed by: _____ Date: 12/23/10
Verified by: _____ Date: 12/23/10

%Difference = High - Low Amount divided by the Average times 100

Higher Amount Found

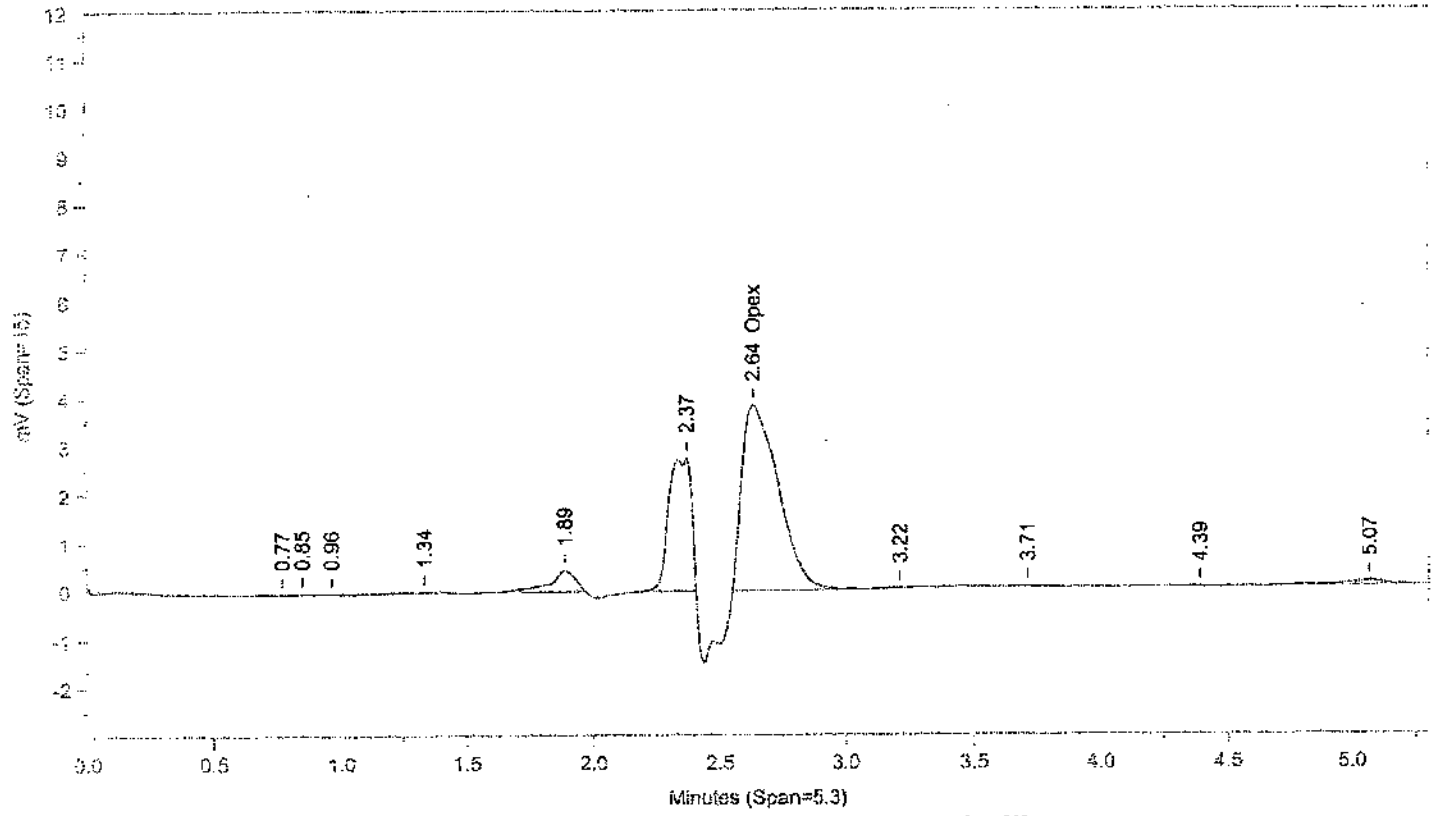
8186

* Recovery outside QC Limits

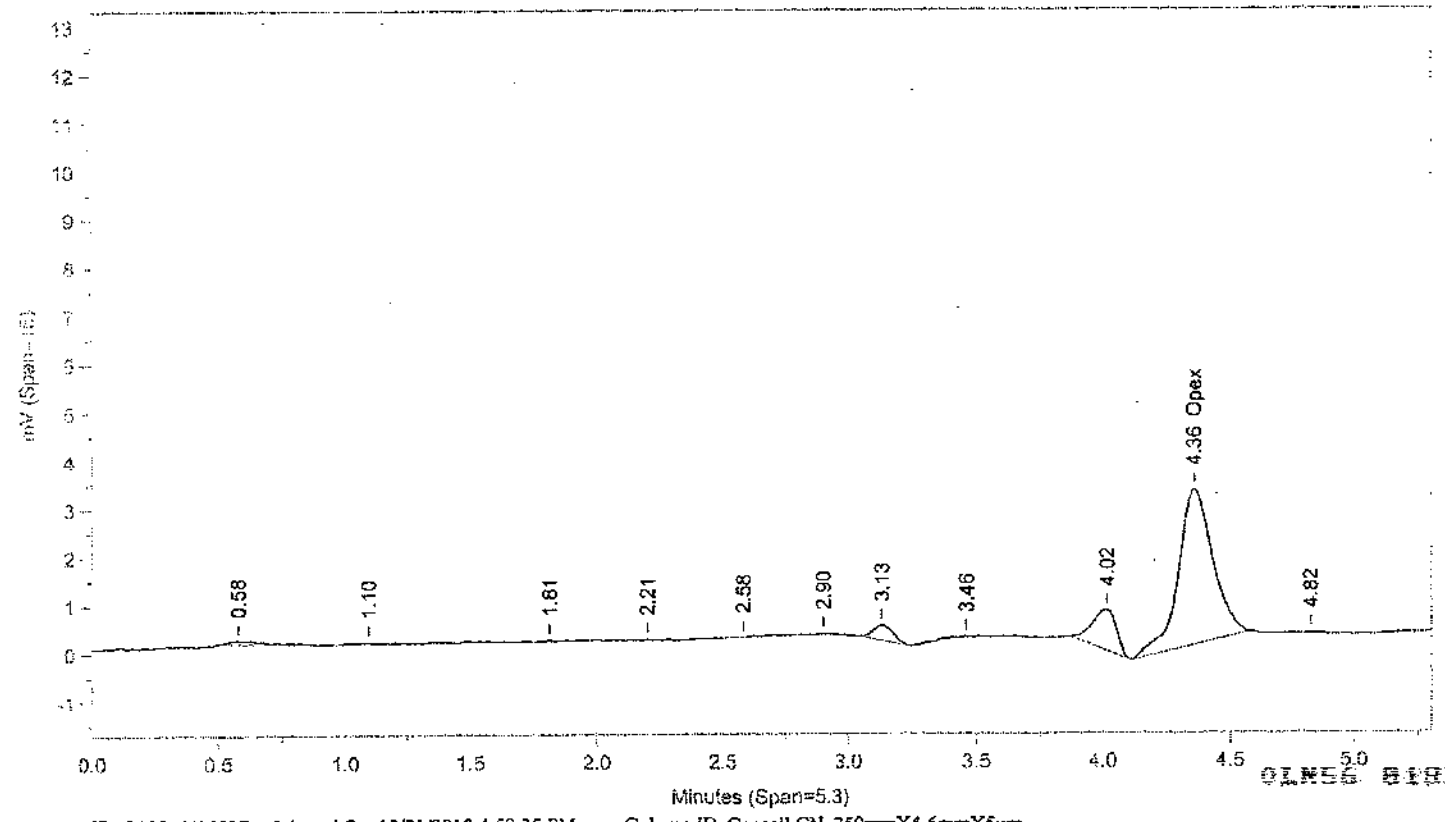
Printed on: 12/21/10 19:47:00

LANCASTER LABORATORIES

FILE NAME: C:\CPWIN\DATA1\1X11355.13R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 4:58:35 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 4:58:35 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.637	3844	781.743	Opex	4.359	3241	711.626	Opex

Files:
Area File: C:\CPWIN\DATA1\IX11355.13A
Area File: C:\CPWIN\DATA1\IX11355B.13A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\IX11355.CAL
Calibration File B: C:\CPWIN\DATA1\IX11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:10:26 PM
File Reported On: 12/21/2010 at 7:10:35 PM

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO. ISCSW

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103480033A

Lab Code: Case No.: SAS No.: SDG No.: OLN54

Matrix: (soil/water) WATER Lab Sample ID: 6162684

Sample wt/vol: 10 (g/ml) ml Lab File ID: 1X11355.16R

% Moisture: Decanted: (Y/N) Date Received: 12/11/2010

Extraction: (SepF/Cont/Sonc) Direct Injection Date Extracted: 12/16/2010

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/2010

Injection Volume: 35 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
101-25-7	Opex	33	U

OLN56 0189

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6162684 ISCSW Sample ID: AA **Batchnumber: 103480033A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: OLN54 State: MA
Analyses: 02726 02727

Analysis Report (A)

Injected on	: DEC 21, 2010 17:16:12
Instrument	: CP09–X3593A
Result file	: 1X11355.16R
Calibration file	: 1X11355.CAL
Method file	: OPEX.MET

Peak name	Min	R.T.	Max	Height	Amount
Opex	2.52	2.72	2.72	157	31.992748

Analysis Report (B)

Injected on	: DEC 21, 2010 17:16:12
Instrument	: CP09–X3593B
Result file	: 1X11355B.16R
Calibration file	: 1X11355B.CAL
Method file	: OPEXB.MET

Peak name	Min	R.T.	Max	Height	Amount
Opex	4.27	4.24	4.47	126	27.736156

< MDL

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Opex	A	31.992748	<100	~~20~~ 33	J	14.25	

< 33 - conf unclear 12/22/10

Units: ug/l

Reviewed by: 1566 Date: 12/23/10
Verified by: Date: 12/28/10

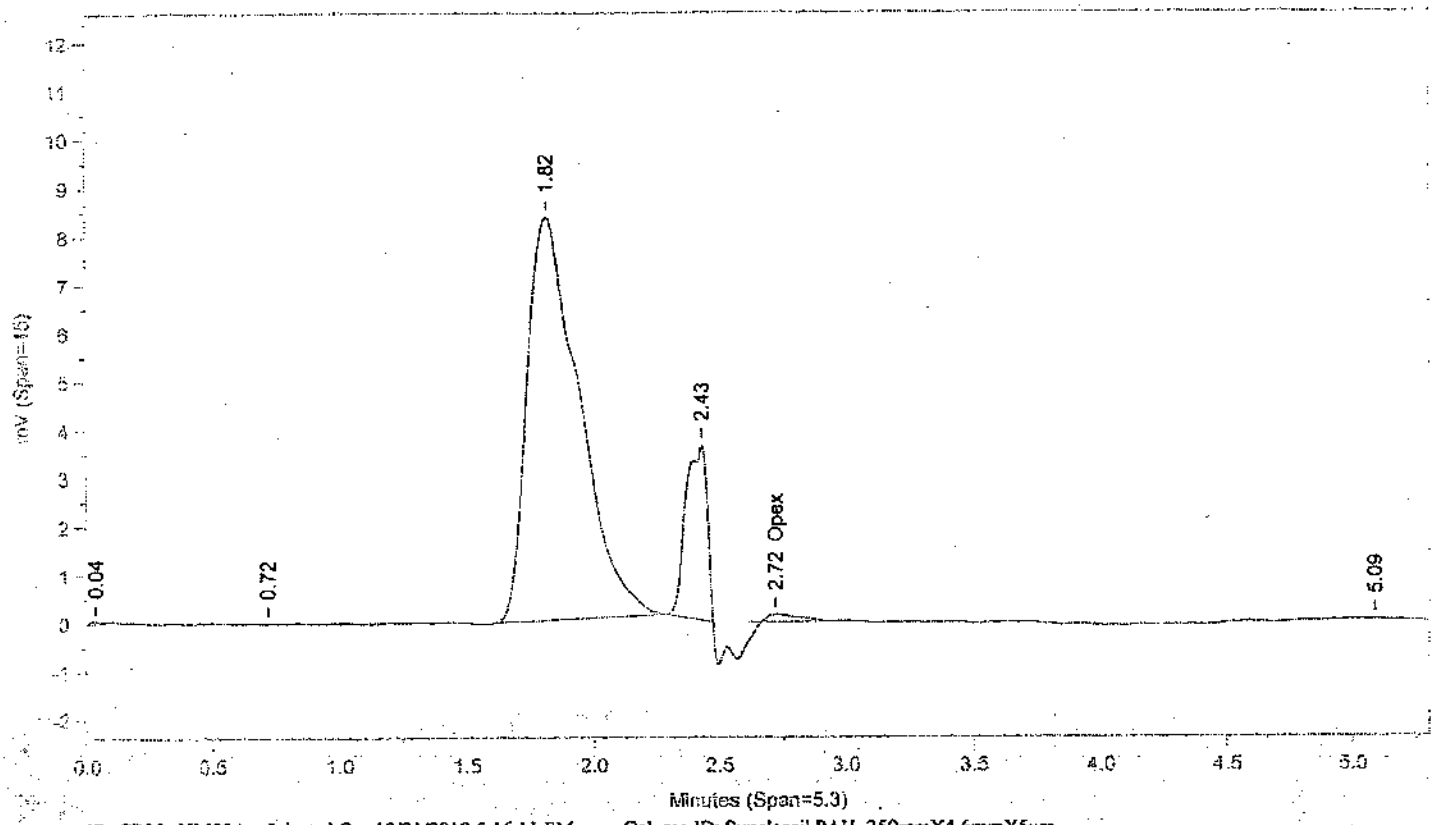
%Difference = High - Low Amount divided by the Average times 100

Higher Amount Found 0198

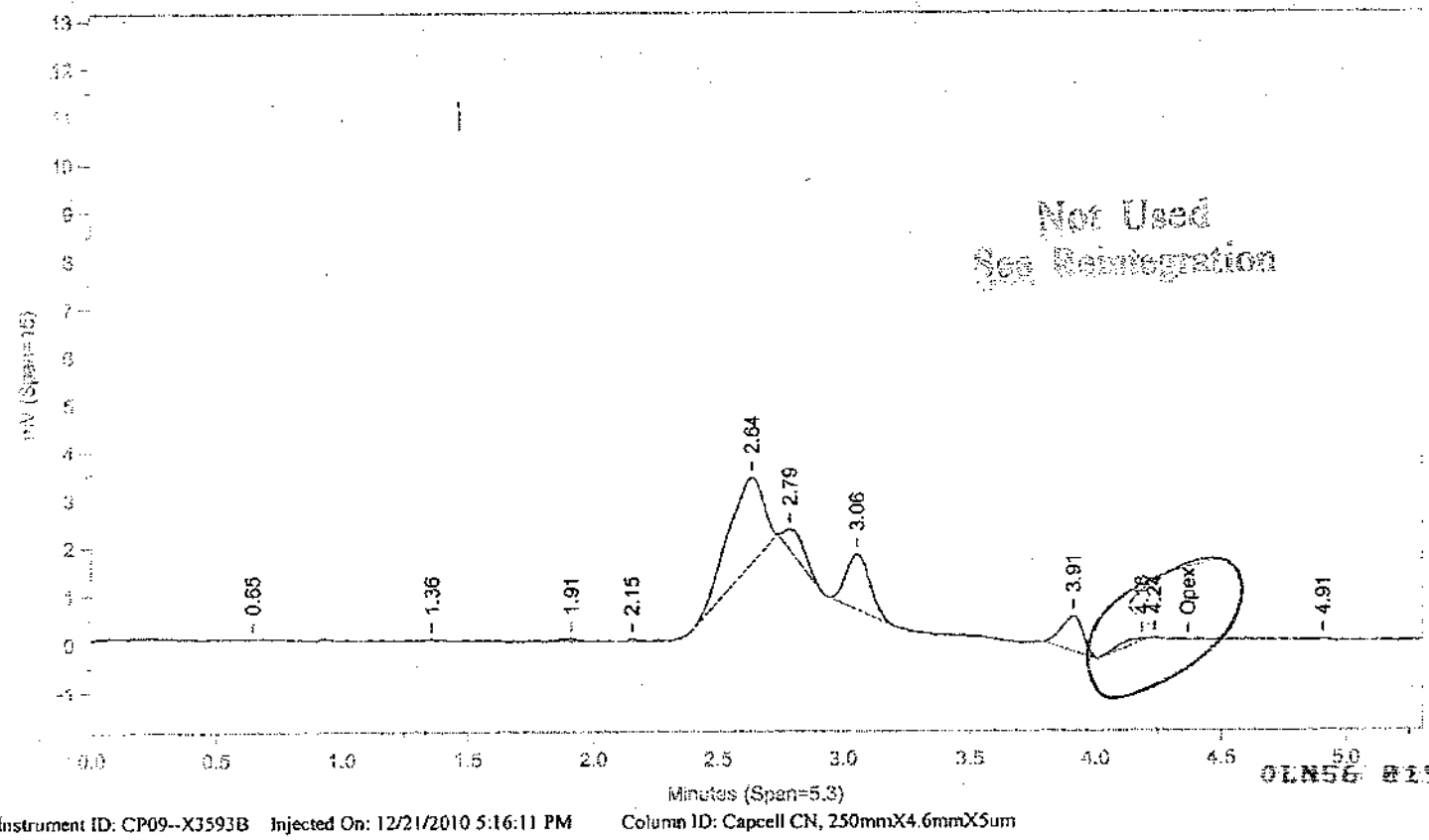
* Recovery outside QC Limits

Printed on: 12/21/10 19:47:52

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA\1\X11355.16R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 5:16:11 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Not Used
See Reintegration

Instrument ID: CP09--X3593B Injected On: 12/21/2010 5:16:11 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 10
Analyst: 1566

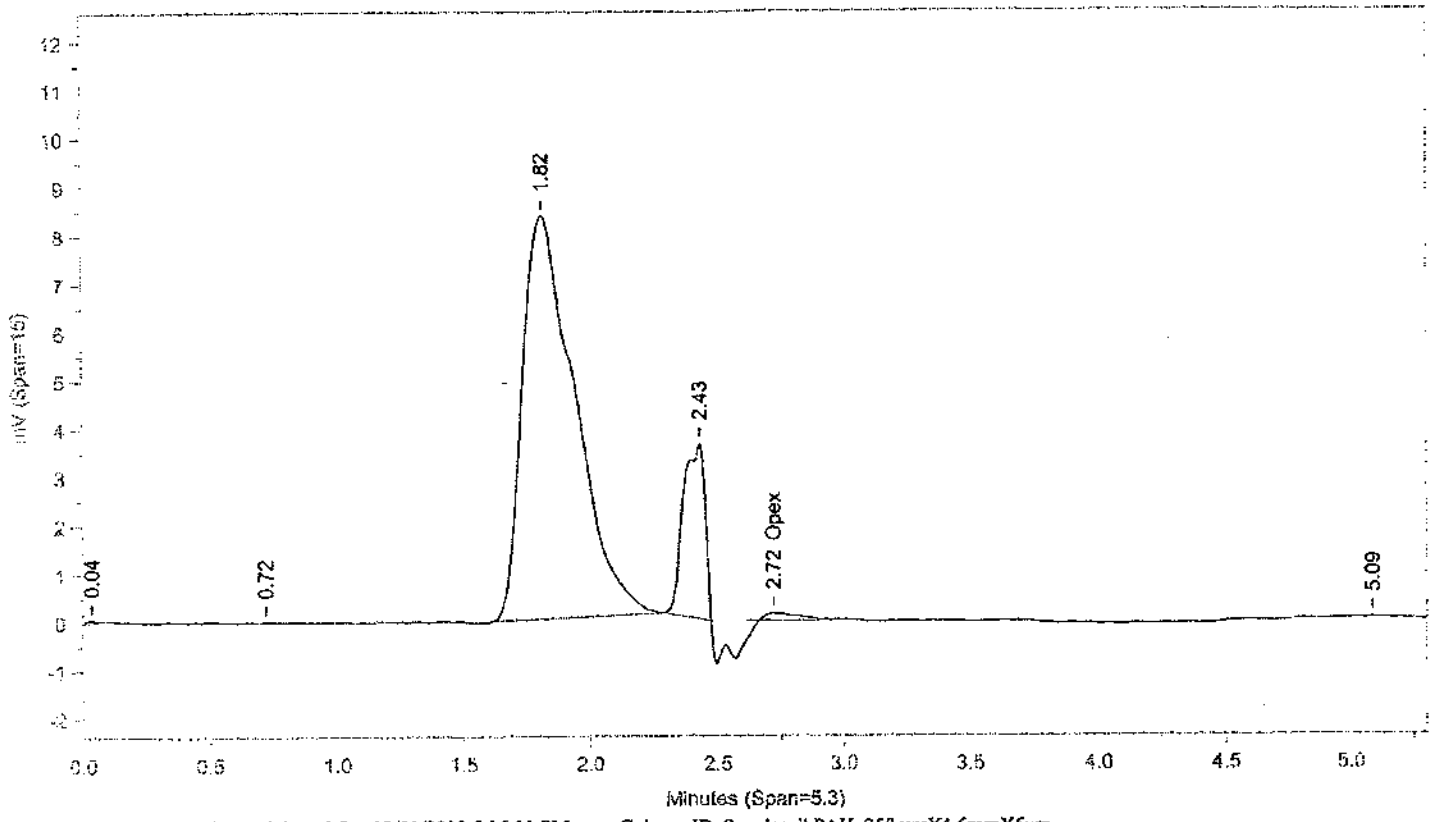
Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.72	157	31.993	Opex	.	0	.	Opex

Files:
Area File: C:\CPWIN\DATA1\1X11355.16A
Area File: C:\CPWIN\DATA1\1X11355B.16A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\1X11355.CAL
Calibration File B: C:\CPWIN\DATA1\1X11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:11:28 PM
File Reported On: 12/21/2010 at 7:11:36 PM

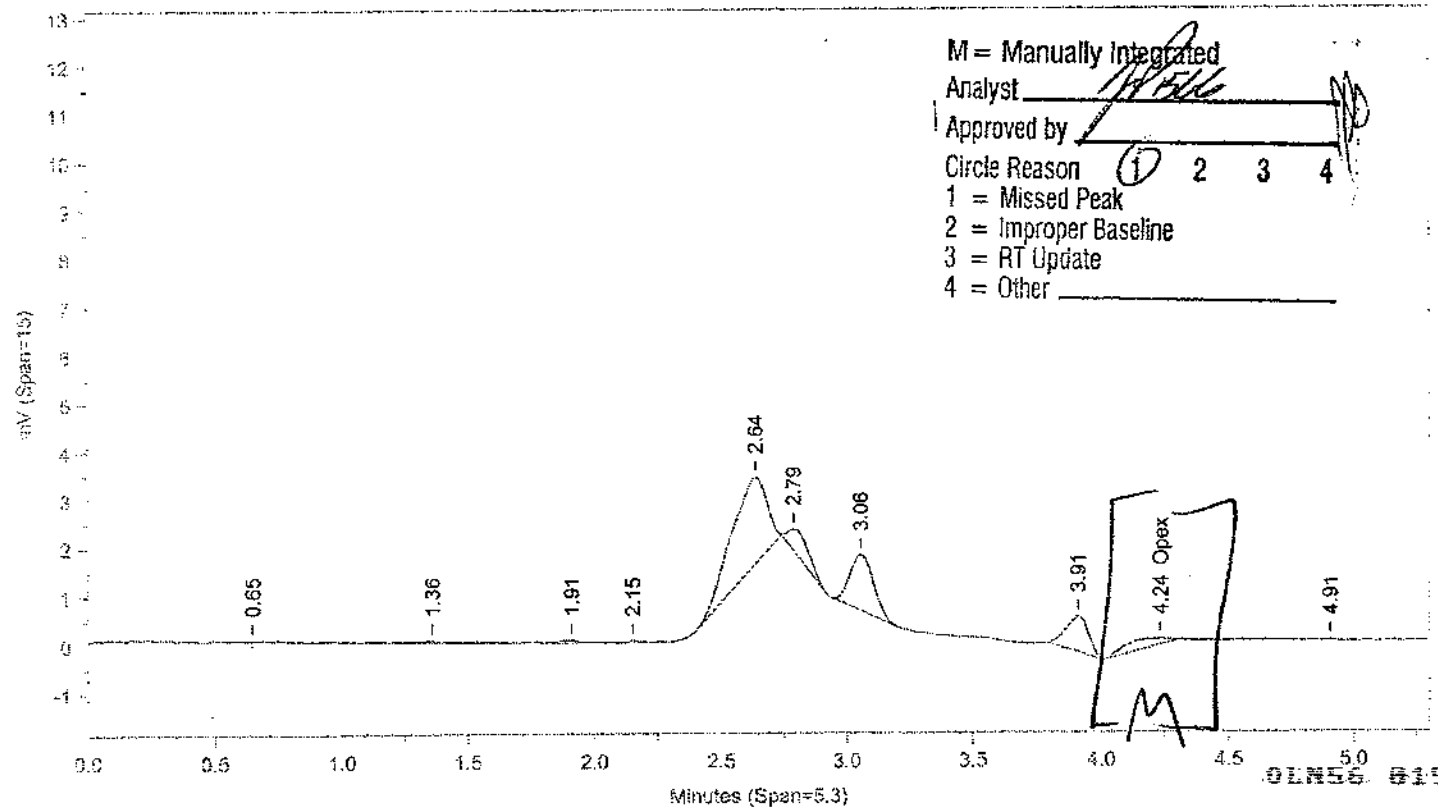
Not Used
See Reintegration

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA\1X11355.16R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 5:16:11 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um

M = Manually Integrated
Analyst
Approved by
Circle Reason 1 2 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other



Instrument ID: CP09--X3593B Injected On: 12/21/2010 5:16:11 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.72	157	31.993	Opex	4.236	126	27.736	Opex

Files:
Area File: C:\CPWIN\~Dualcha.00A
Area File: C:\CPWIN\~Dualchb.00A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\IX11355.CAL
Calibration File B: C:\CPWIN\DATA1\IX11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:27:26 PM
File Reported On: 12/21/2010 at 7:27:24 PM

1D

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO.

ISCSW MS

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103480033A

Lab Code: Case No.: SAS No.: SDG No.: OLN54

Matrix: (soil/water) WATER Lab Sample ID: 6162685

Sample wt/vol: 10 (g/ml) ml Lab File ID: 1X11355.17R

% Moisture: Decanted: (Y/N) Date Received: 12/11/2010

Extraction: (SepF/Cont/Sonc) Direct Injection Date Extracted: 12/16/2010

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/2010

Injection Volume: 35 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
101-25-7	Opex	760	

OLN56 |0195

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6162685 MS ISCSW **Sample ID:** AA **Batchnumber:** 103480033A
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: OLN54 State: MA
Analyses: 02726 02727

Analysis Report (A)

Injected on : DEC 21, 2010 17:22:03
Instrument : CP09--X3593A
Result file : 1X11355.17R
Calibration file : 1X11355.CAL
Method file : OPEX.MET
%SSR(Opex) :

Peak name	Min	R.T.	Max	Height	Amount
Opex	2.52	2.70	2.72	3716	755.746033

Analysis Report (B)

Injected on : DEC 21, 2010 17:22:03
Instrument : CP09--X3593B
Result file : 1X11355B.17R
Calibration file : 1X11355B.CAL
Method file : OPEXB.MET
%SSR(Opex) :

Peak name	Min	R.T.	Max	Height	Amount
Opex	4.27	4.24	4.47	3072	674.586914

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Opex	A	755.746033	100	20		11.35	

Units: ug/l

Reviewed by: _____ Date: 12/23/10
Verified by: _____ Date: _____

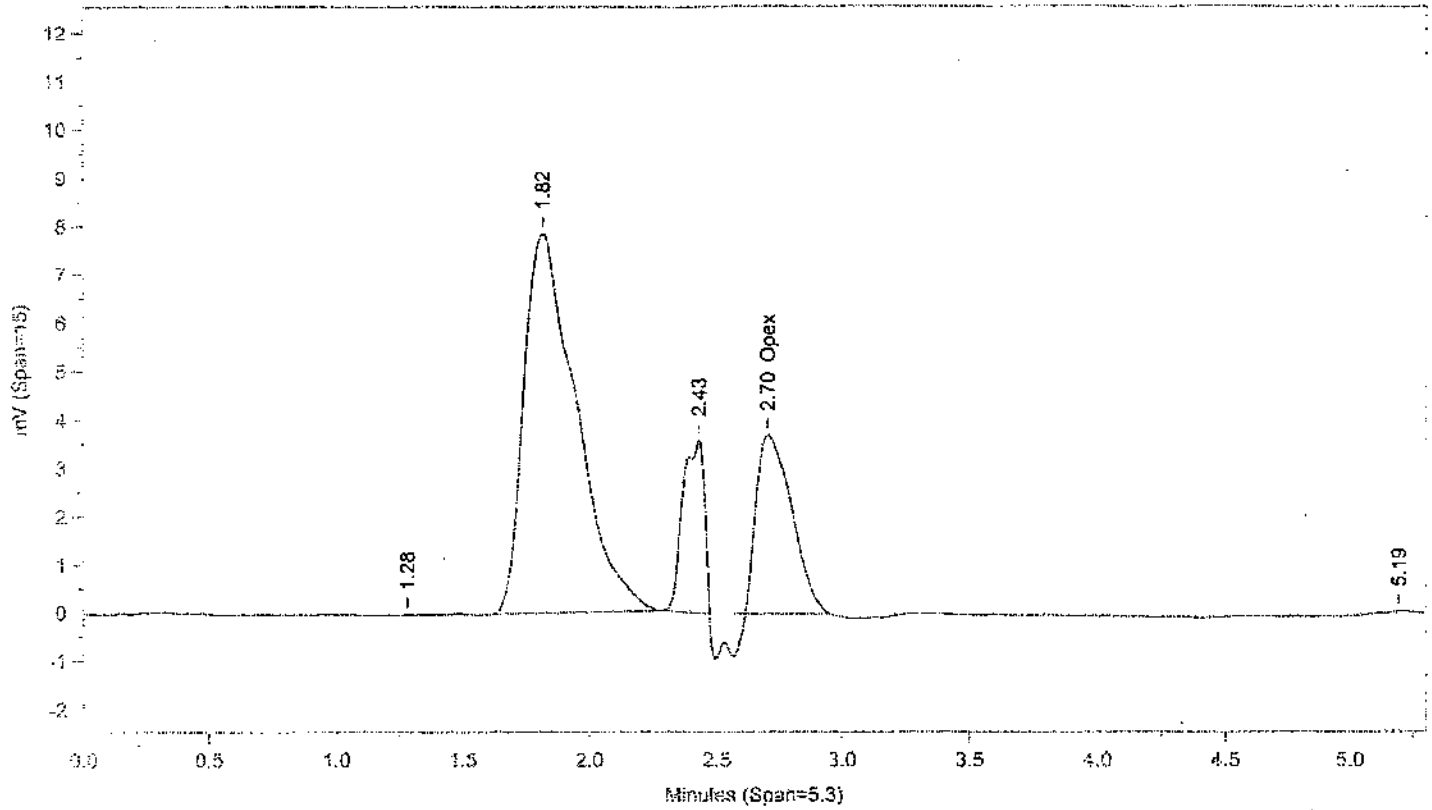
%Difference = High - Low Amount divided by the Average times 100

Higher Amount Found 5196

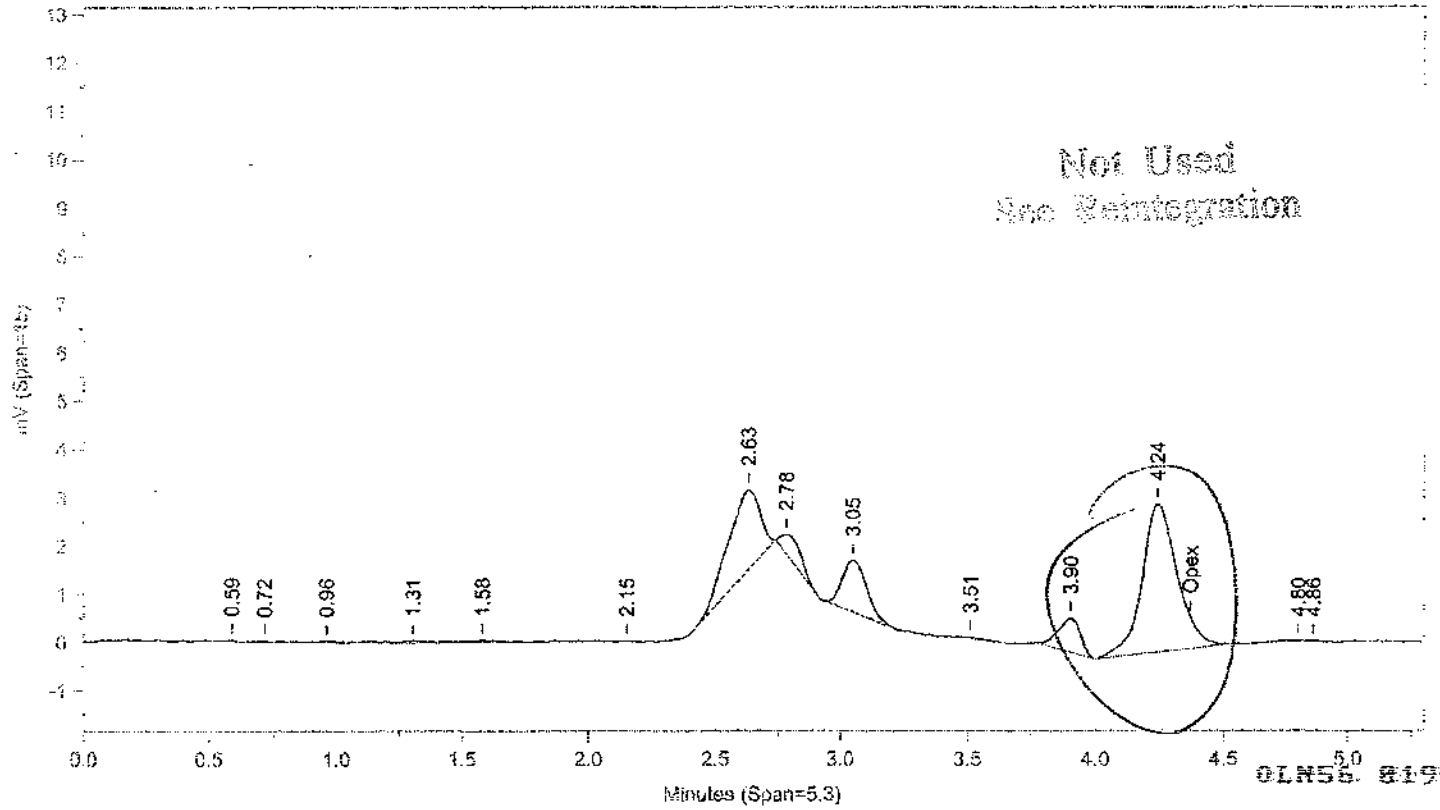
* Recovery outside QC Limits

Printed on: 12/21/10 19:48:09

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\IX11355.17R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 5:22:02 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 5:22:02 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 10
Analyst: 1566

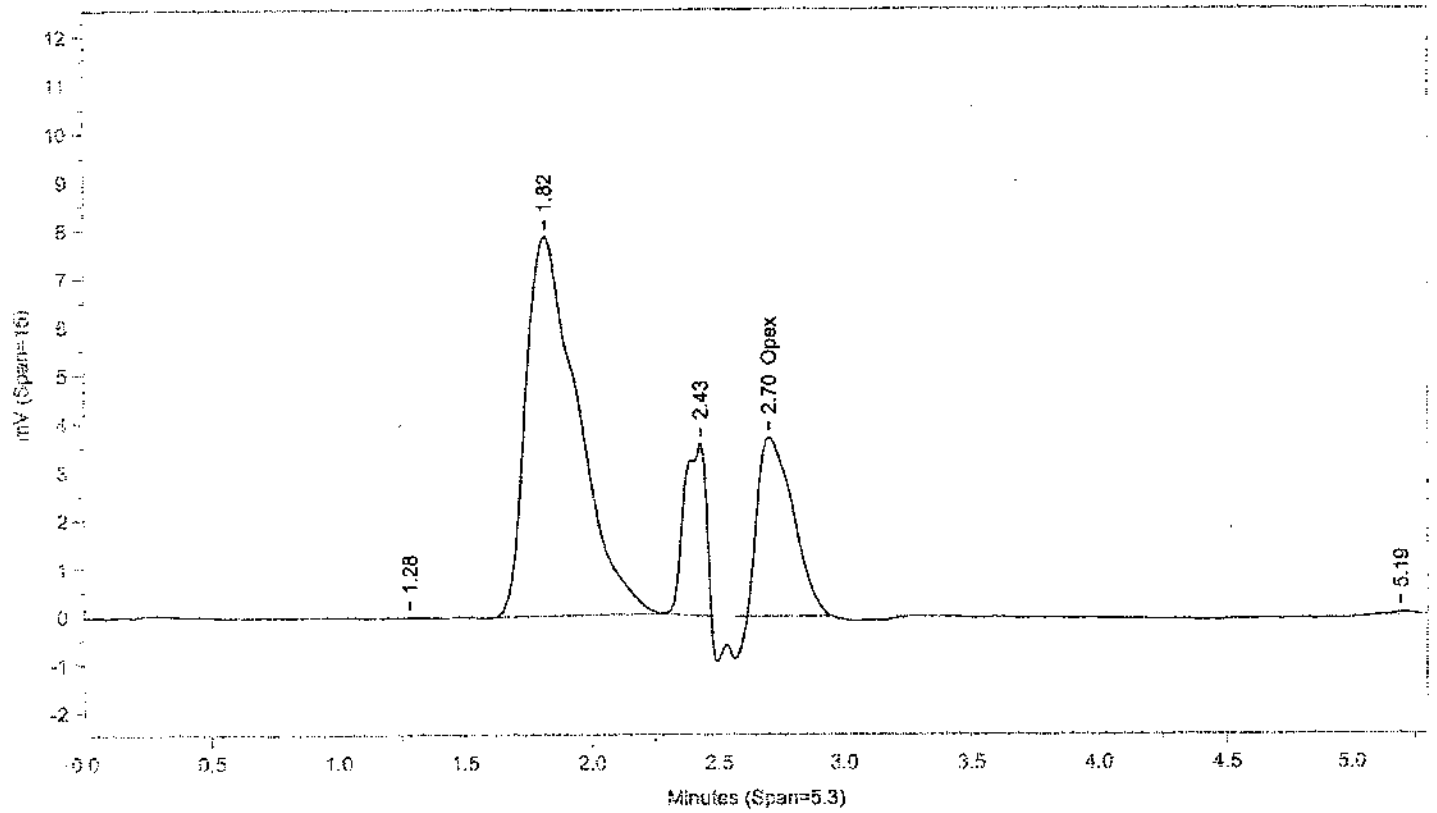
Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.702	3716	755.746	Opex			0	Opex

Files:
Area File: C:\CPWIN\DATA1\IX11355.17A
Area File: C:\CPWIN\DATA1\IX11355B.17A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\IX11355.CAL
Calibration File B: C:\CPWIN\DATA1\IX11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:11:48 PM
File Reported On: 12/21/2010 at 7:11:56 PM

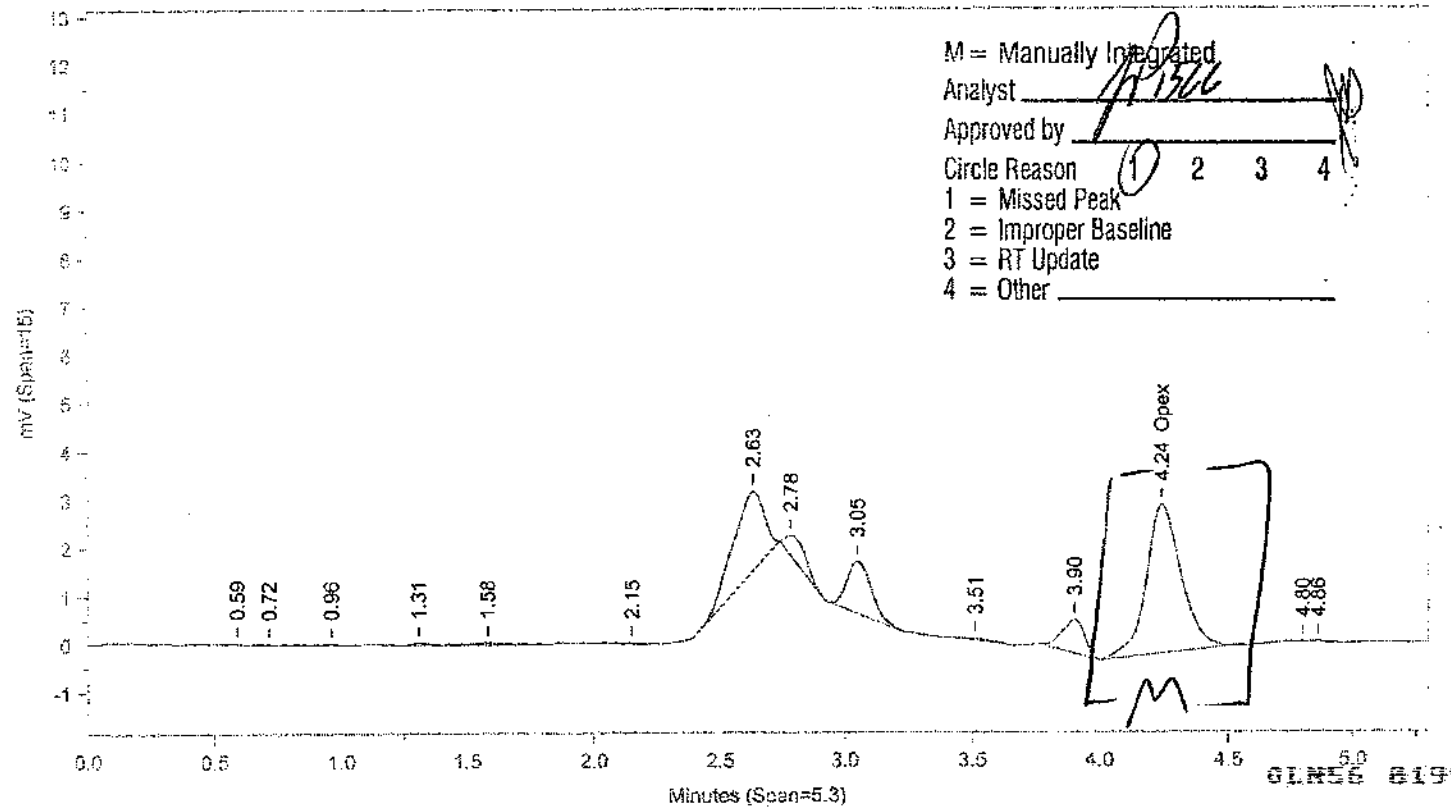
Not Used
See Reintegration

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1X11355.17R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 5:22:02 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um

M = Manually Integrated
Analyst
Approved by
Circle Reason 1 2 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other



Instrument ID: CP09--X3593B Injected On: 12/21/2010 5:22:02 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.702	3716	755.746	Opex	4.243	3072	674.587	Opex

Files:
Area File: C:\CPWIN\~Dualcha.00A
Area File: C:\CPWIN\~Dualchb.00A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\1X11355.CAL
Calibration File B: C:\CPWIN\DATA1\1X11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:28:16 PM
File Reported On: 12/21/2010 at 7:28:15 PM

1D

ORGANICS ANALYSIS DATA SHEET

SAMPLE CODE NO.

ISCSW MSD

Lab Name: Lancaster Laboratories Contract: Batchnumber: 103480033A

Lab Code: Case No.: SAS No.: SDG No.: OLN54

Matrix: (soil/water) WATER Lab Sample ID: 6162686

Sample wt/vol: 10 (g/ml) ml Lab File ID: 1X11355.18R

% Moisture: Decanted: (Y/N) Date Received: 12/11/2010

Extraction: (SepF/Cont/Sonc) Direct Injection Date Extracted: 12/16/2010

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/2010

Injection Volume: 35 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (UG/L or UG/KG) ug/l	Q
101-25-7	Opex	770	

OLN56 8281

Lancaster Laboratories Single Component Data Summary

Sample Name: 6162686MSD ISCSW Sample ID: AA **Batchnumber: 103480033A**
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: OLN54 State: MA
Analyses: 02726 02727

Analysis Report (A)

Injected on : DEC 21, 2010 17:27:55
Instrument : CP09--X3593A
Result file : 1X11355.18R
Calibration file : 1X11355.CAL
Method file : OPEX.MET
%SSR(Opex) :

Peak name	Min	R.T.	Max	Height	Amount
Opex	2.52	2.70	2.72	3791	770.998657

Analysis Report (B)

Injected on : DEC 21, 2010 17:27:55
Instrument : CP09--X3593B
Result file : 1X11355B.18R
Calibration file : 1X11355B.CAL
Method file : OPEXB.MET
%SSR(Opex) :

Peak name	Min	R.T.	Max	Height	Amount
Opex	4.27	4.25	4.47	3191	700.704529

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Opex	A	770.998657	100	20		9.55	

Units: ug/l

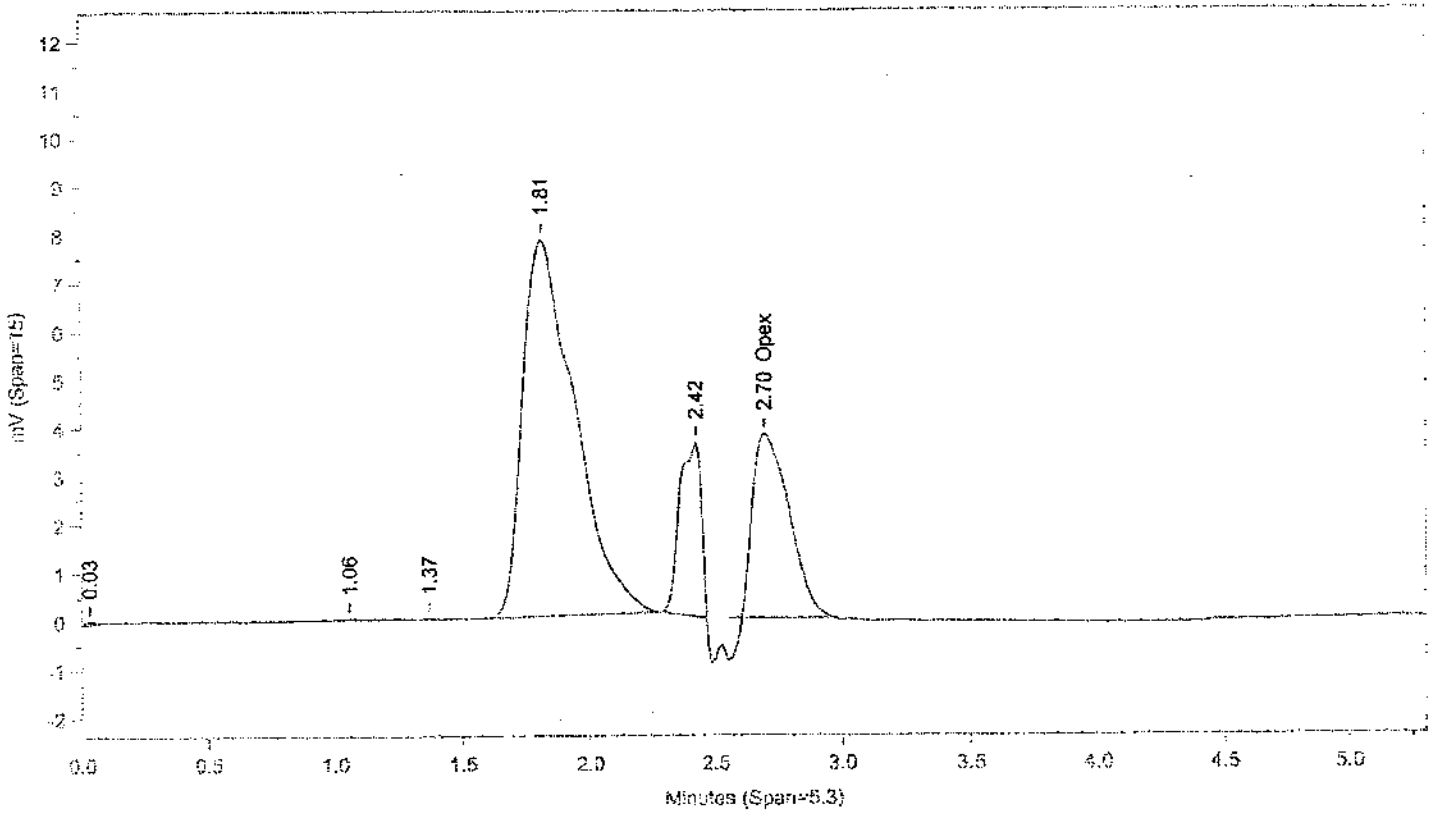
Reviewed by: 1566 Date: 12/23/10
Verified by: Date:

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found

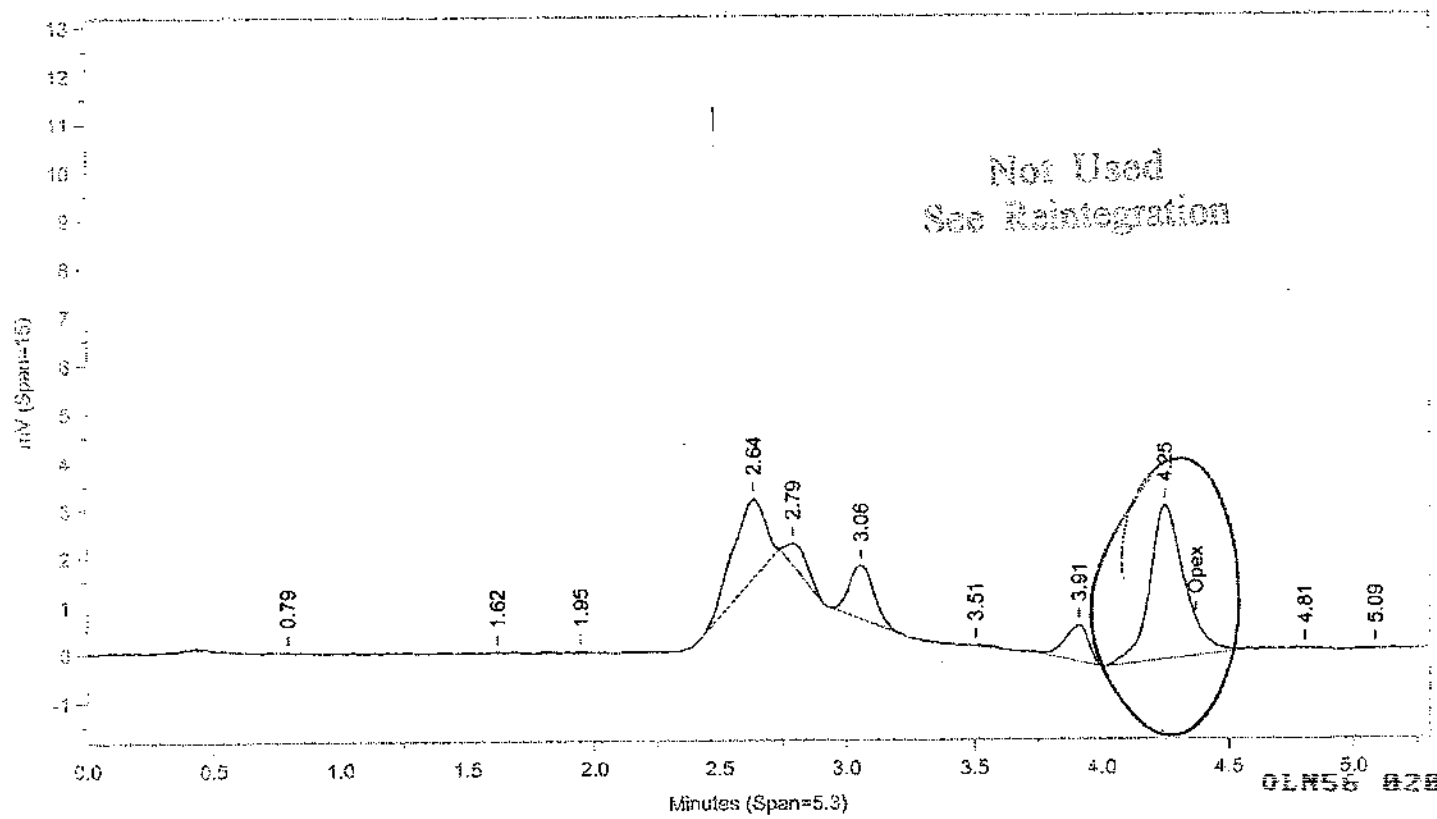
* Recovery outside QC Limits

Printed on: 12/21/10 19:48:26

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA1\1X11355.18R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 5:27:54 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



Instrument ID: CP09--X3593B Injected On: 12/21/2010 5:27:54 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 10
Analyst: 1566

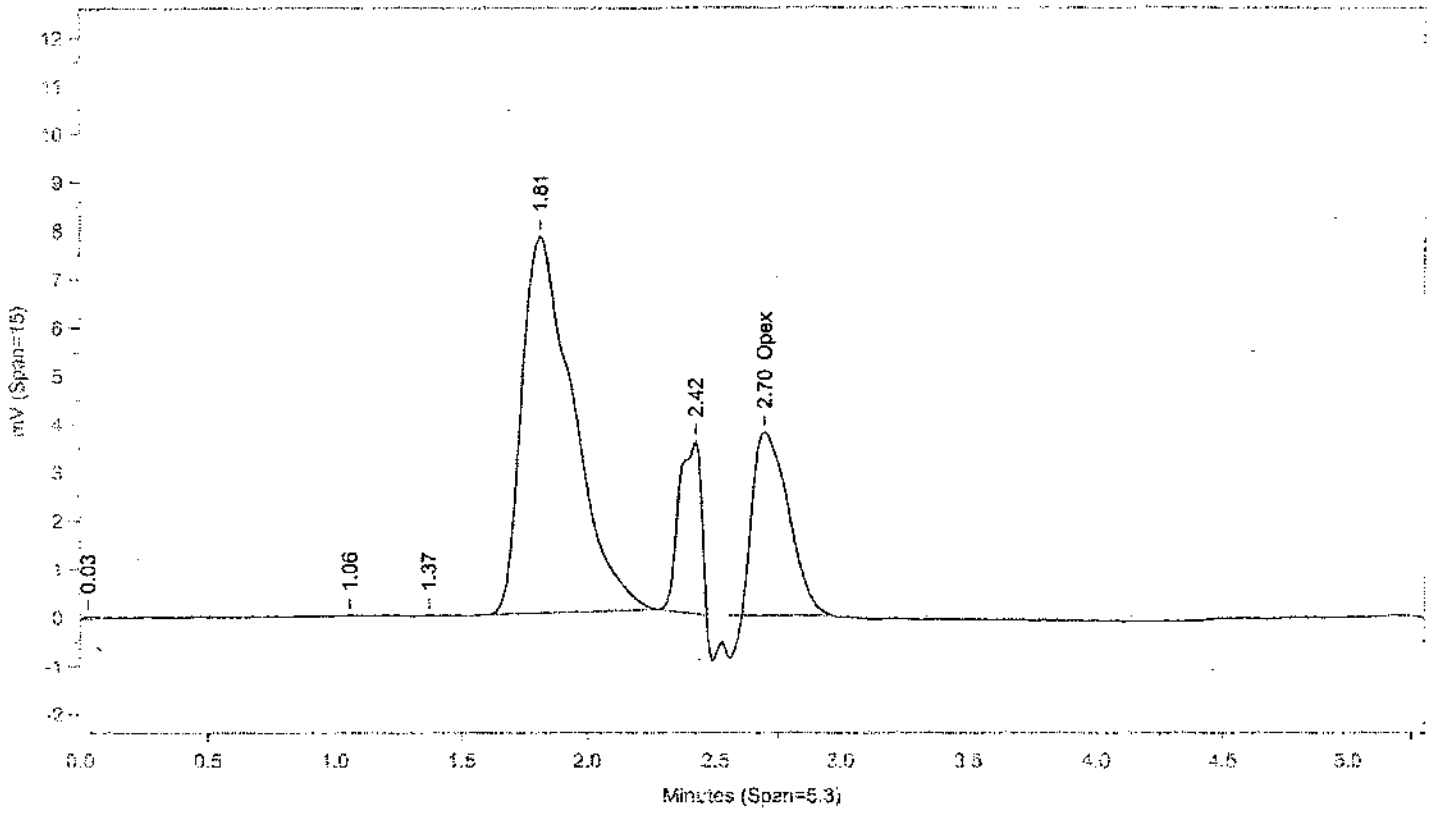
Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.696	3791	770.999	Opex			0	Opex

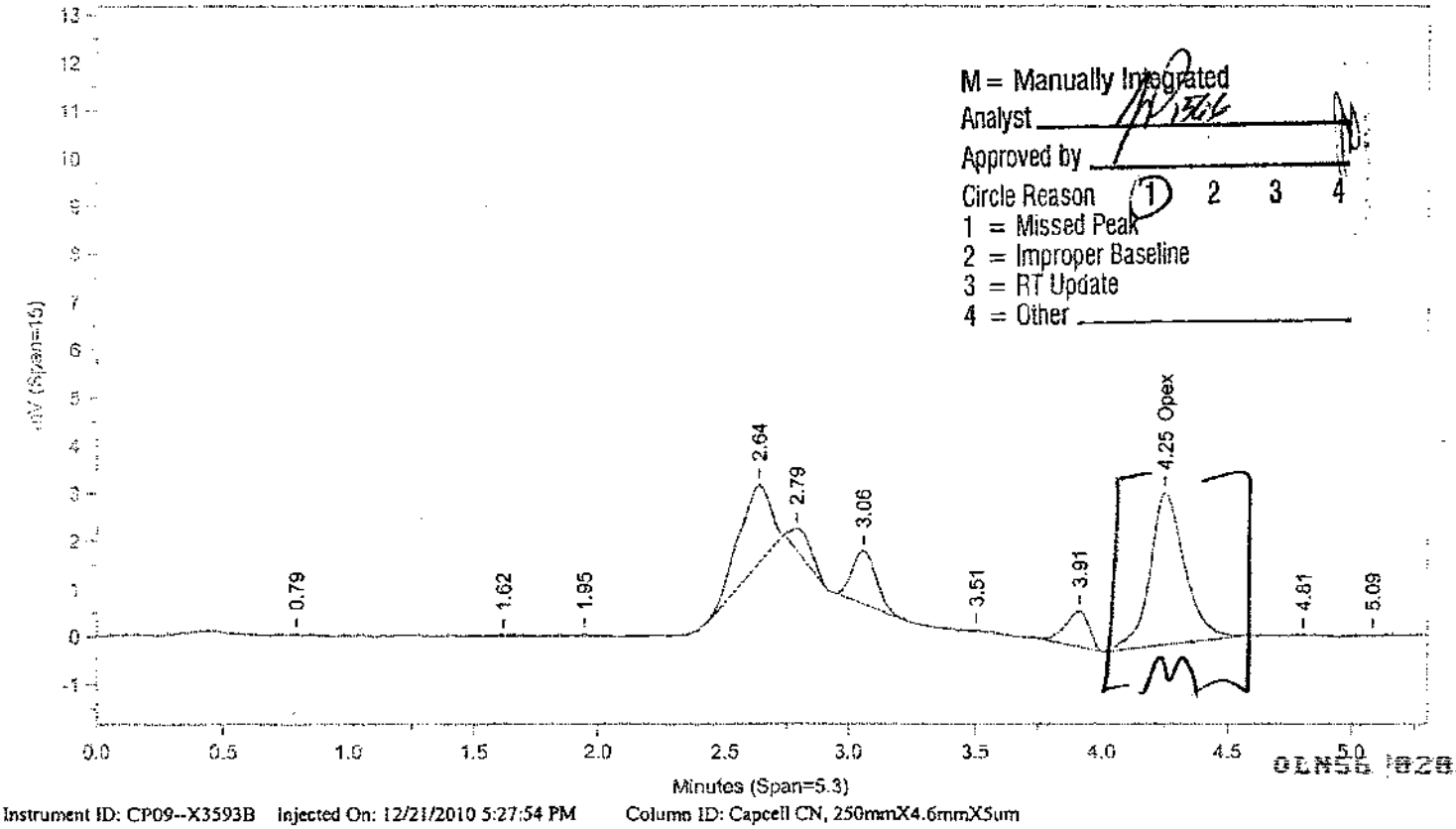
Files:
Area File: C:\CPWIN\DATA1\IX11355.18A
Area File: C:\CPWIN\DATA1\IX11355B.18A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\IX11355.CAL
Calibration File B: C:\CPWIN\DATA1\IX11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:12:08 PM
File Reported On: 12/21/2010 at 7:12:16 PM

Not Used
See Reintegration

LANCASTER LABORATORIES
FILE NAME: C:\CPWIN\DATA\1\X11355.18R



Instrument ID: CP09--X3593A Injected On: 12/21/2010 5:27:54 PM Column ID: Supelcosil PAH, 250mmX4.6mmX5um



M = Manually Integrated
Analyst
Approved by
Circle Reason 1 2 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other

GLN56 02285

Instrument ID: CP09--X3593B Injected On: 12/21/2010 5:27:54 PM Column ID: Capcell CN, 250mmX4.6mmX5um

Oven Parameters: 75% Phosphate Buffer : 25% ACN

Volume Inj: 1

Detector A Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantitation: Height

Detector B Parameters:
Threshold: -4 Width: 0.1
Calibration Type: External

Area Reject: 100
Quantiation: Height

Sample Weight: 10
Analyst: 1566

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.696	3791	770.999	Opex	4.25	3191	700.705	Opex

Files:
Area File: C:\CPWIN\~Dualcha.00A
Area File: C:\CPWIN\~Dualchb.00A
Method A: C:\CPWIN\DATA1\OPEX.MET
Method B: C:\CPWIN\DATA1\OPEXB.MET
Calibration File A: C:\CPWIN\DATA1\1X11355.CAL
Calibration File B: C:\CPWIN\DATA1\1X11355B.CAL
Format A: C:\CPWIN\DATA1\OPEXD.FMTA
Format B: C:\CPWIN\DATA1\OPEXD.FMTB
Area File Created On: 12/21/2010 7:29:32 PM
File Reported On: 12/21/2010 at 7:29:30 PM

Extraction/Distillation/Digestion Logs

Organic Extraction Batchlog Assigned to: 1566 James Place Reviewed by: _____ Start Date: 12/6/10 Start time: 8:02pm

103480033A

Tech 1: 1566 Tech 2: _____

Dept: 24 Prep Analysis: 00000 Opex ~~Kompare~~ in Water

QC	Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
6162685MS	ISCSW	10			ST10326 24C	0.1	10	5.85	9.80	554	Yellowish with Brown Sediment
	ISCSW										
6162686MSD	ISCSW	10			ST10326 24C	0.1	10	5.79	9.83	554	〃
	ISCSW										
BLANKA	PBLK33348	10					10	–	9	N/C	
	PBLK33348										
LCSA	LCS33348	10			ST10326 24C	0.1	10	–	9		
	LCS33348										
LCSDA	LCSD33348	10			ST10326 24C	0.1	10	–	9	〃	
	LCSD33348										

~~ST10326 24C Opex Stock~~ (3) 〃

ST10354 24B - Opex Stock

Sample #	Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
1 6162682	EBK--	10			10	9.00	9.20	554		02726 02727	12/27/2010	P
2 6162683	ISCDP	10			10	5.81	9.28		Yellowish with Brown sediment	02726 02727	12/27/2010	P
3 6162684BKG	ISCSW	10			10	5.89	9.20			02726 02727	12/27/2010	P
4 6162688	ISCS2	10			10	5.94	9.68			02726 02727	12/27/2010	P
5 6162689	OPWD1	10			10	5.64	9.92		Yellowish with Brown sediment	02726 02727	12/27/2010	P
6 6162690	OPWD2	10			10	5.61	9.66			02726 02727	12/27/2010	P
7 6162691	OPWDS	10			10	5.32	9.40			02726 02727	12/27/2010	P
8 6162692	PZ16R	10			10	5.57	9.12		Yellowish sediment	02726 02727	12/27/2010	P
9 6162693	PZ17R	10			10	4.96	9.02			02726 02727	12/27/2010	P
10 6162694	SWSD1	10			10	5.93	9.07			02726 02727	12/27/2010	P
11 6165071 ~~R~~	SW0--	10			10	6.38	9.41			02726 02727	12/29/2010	P
12 6165072 ~~R~~	SW1--	10			10	6.76	9.14			02726 02727	12/29/2010	P
13 6165073 ~~R~~	SW2--	10			10	6.89	9.51			02726 02727	12/29/2010	P
14 6165074 ~~R~~	SW5--	10			10	6.57	9.62	〃		02726 02727	12/29/2010	P

SMS 12/12/10

Rack ID:		Work Station	
Internal Standard		Balance #	

S-bath ID	C	S-bath ID	C	N-Evap	C	M-vap	C	103480033A

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume